

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

FEBRUARY 15, 1950

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the March 1 issue close Monday, February 20.

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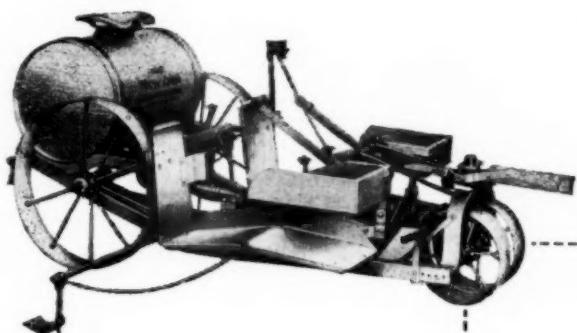


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AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*
Joan L. Kilner, *Assistant Editor*

Editorial

BAD SELLING.

In addressing a trade group recently, the sales promotion head of a prominent advertising agency declared that there was more bad selling at wholesale than at retail. By bad selling he meant taking the customer for granted.

Unquestionably the average wholesale order is larger than that at retail. Yet acknowledgments of wholesale orders are likely to be curt and perfunctory, while some of them do not even say thank you or anything like it.

Probably this failing is more obvious in business by mail than that done in person. Wouldn't it pay us to let more personality be shown in our mail contacts with customers?

Why go to the trouble and expense of digging up new buyers, instead of taking a little extra trouble to cement relationships with those who are already doing business with you?

UNLIMITED.

When one gets away from the contemplation of last year's annual sales figures and the prospective volume for the year ahead, letting one's mind roam on the possibilities in this country of ours, a vision appears which makes our current operations seem dwarfed in their relation to what might be.

This is true in the broad terms of our current standards of living, to which reference was made in another application by Charles E. Wilson, president of General Electric Co., in his recent message to the stockholders. His concluding paragraph was:

"To anyone at all familiar with the conditions of hardship and poverty and dire distress under which large portions of our people live, it is all too apparent that our productive facilities have a long way to go in fulfilling even the most basic needs. I suggest that the attention of our economists, of our lawmakers and of our law enforcers be turned, not toward ways of putting limits on production and creation, but toward ways to stimulate and encourage new growth and development on the part of all industry."

Horticulture has always advanced with the standards of living in this

The Mirror of the Trade

country and any other. The differences in the planting of home grounds and in the cultivation of gardens, between one section of the country and another, reflect the differences in the period of time in which the respective areas have been settled and their rise in prosperity. When the backward sections have caught up with those more advanced, how much bigger will be the volume of business done by nurserymen and those engaged in other branches of commercial horticulture!

The stimulus of this forward glance has been felt by everyone in thinking of the scope of horticulture. Its force should invigorate everyone engaged in this field, not left to others. So may we all push on to better the standards of living, as well as the fuller enjoyment of comfort and beauty.

SIGNS FOR SPRING.

One of the most important forms of advertising for the retail nurseryman is his sign on the highway. In some cases it is the only form of advertising he does. Look at yours to see whether it is still clear and attractive, or if it is so weather-beaten that it gives the impression to passers-by that you are going, or have gone, out of business.

This is the time to plan for the repainting of your old signs or the design and erection of new ones. The cost of a new paint job is small, yet it makes a big difference in the effect on passing prospects.

GIFT CERTIFICATES.

At its meeting at Chicago last month, the executive committee of the American Association of Nurserymen reversed its previous position after consideration of new information and voted to continue the gift certificate plan for the calendar year 1950.

This will be good news to those nurserymen who believed that the plan, while slow in starting, holds many possibilities for increasing the sale of trees and shrubs. Some A. A. N. members reported outstanding results, because they made real effort to promote gift certificates. The plan merits equal attention by others.

Early effort in this direction seems advisable, because the A. A. N. office has stated that a decision will be

made at the July meeting of the board of governors as to continuation of the gift certificates for 1951.

For the present, the A. A. N. will renew the bond under which the gift certificates are issued. Members can obtain additional books of certificates from the Washington office, as well as counter cards advertising and promoting the sale of these certificates.

DEEP FREEZERS.

Retail nurserymen and growers of fruit trees and berry plants should give attention to the probable effect on their sales of the increasing popularity of deep-freeze units. Wherever one is installed, there is a prospective buyer for fruit-producing plants.

The suburban homeowner and even the farmer with a small home orchard is frequently discouraged in his attention to fruit trees and berry plants because, lacking facilities for storage, the family larder is glutted with a particular fruit during the period of its harvest, but when winter comes the supply is gone unless the housewife has spent days in canning.

The installation of a deep-freeze unit will make it possible to grow a larger variety of fruits, and probably a greater number, because they can be stored for a long period and hence provide a definite means of economy in the budget for groceries.

The manufacturers of deep-freeze units are contemplating their sale, not in the hundreds of thousands, but in the millions. So the prospects to be added to the nursery market in this respect will be sizable. The nursery catalog writers should take the subject in hand for their next editions.

HAVING become ill upon his return home from the Illinois State Nurserymen's Association convention last month, Walter Montfort, Andrews Nursery Co., Faribault, Minn., has been confined to the hospital for several weeks.

MORE than 2,000 young redbud trees are being planted throughout California by the state highway commission. Propagated from seeds gathered in the Sierra foothills by students of Mills College, Oakland, the trees, which are now about three feet tall, were germinated under the direction of Howard J. McMinn, botany director at the college, at the William M. McInnis memorial garden.

State Leaders at Ohio Meeting

In the state that has cradled many national political leaders, the Ohio Nurserymen's Association not unnaturally drew to its forty-third annual convention, at the state capital, January 26 and 27, a number of prominent figures in the state.

An unprogrammed appearance was that of James A. Rhodes, mayor of Columbus, who personally delivered a welcoming address that revealed his exceptional oratorical ability.

At the afternoon session January 26, A. W. Marion, who a year ago addressed the organization as head of the Ohio department of agriculture, came as head of the newly created department of natural resources. His address, on "The Ohio Department of Natural Resources as Related to the Nursery Industry," not only outlined the composition of the new department and the functions of its seven divisions, but also portrayed its activities, many of which go hand in hand with the objectives of the nurserymen's new slogan, "Plant America."

"Ye Olde Tyme Dinner."

At the banquet the guests included Mr. Marion, as well as H. S. Foust, the new director of agriculture, and V. W. Flickinger, chief of the division of state parks, and also Dr. Leo H. Rummell, dean of the college of agriculture, and Dr. F. S. Howlett, head of the department of horticulture at Ohio State University and the Ohio agricultural experiment station. Each spoke only briefly upon introduction, the evening being given over to an excellent floor show and dancing after the eighteenth annual "Ye Olde Tyme Dinner," in the Grand ballroom of the Neil House, Columbus. James E. Ilgenfritz, Monroe, Mich., president of the American Association of Nurserymen, was also a guest of honor and spoke briefly.

The decorations of the ballroom for this event, as well as preparations for the dinner, were elaborate, and the local committee, of which Hilton Love, of the Linworth Nursery, Columbus, was chairman, came in for much commendation. Behind the speakers' table was a background of junipers, flanked by flowering shrubs and daffodils as if in a garden border. Flower arrangements and candles adorned the red-checkered table cloths, as did white birch-like branches hung with apples. Enough of the members wore blue jeans,

denim and straw hats to give the rural touch.

Officers Elected.

Officers elected for the ensuing year are G. Bret Slemmons, Slemmons Gardens Nursery, Worthington, president; Louis Bookwalter, Berryhill Nursery Co., Springfield, vice-president, and John D. Siebenthaler, Dayton, secretary-treasurer. To the executive committee were elected James Scarff, of W. N. Scarff's Sons, New Carlisle, O., retiring president, and Carl Kern, Jr., Wyoming Nurseries, Cincinnati.

Holdover members of the executive committee are Walter Truby, Ironton; Paul Aukeman, South Vienna, and Charles Kohanick, Painesville.

Committee Reports.

At the business meeting with which the convention opened Thursday morning, January 26, Secretary John D. Siebenthaler reported the

largest increase in members in any one year, to a current total of 164 active members. His report as treasurer indicated income of over \$4,000 the past year and disbursements enough less so that the funds on hand at the end of the year, \$2954.10, showed a gain of \$300 over the beginning of the year.

In the absence of the chairman, Clarence O. Siebenthaler, who is enjoying a Caribbean cruise with Mrs. Siebenthaler, Tom Kyle read the report of the legislative committee, which had largely to do with state unemployment compensation regulations and amendments to the federal wage-hour law.

In his official address, President James Scarff reported that the executive committee, meeting the previous evening, had recommended that the association's research program be continued on the basis of voluntary contributions.

The chairman of the research committee, Walter Burwell, reported that \$1,000 had been contributed for the fellowship to carry on the research. Additional expenses were for materials and equipment, although most of the plants required in the research projects were donated by members. Cash raised was \$1,206, of which \$706 was in contributions, \$300 from registration fees of the summer meeting and \$200 salvage on plant materials sold after the completion of the projects. Seventy-three per cent of the members of the association had contributed to the research fund, and under the research plan only those contributing to the research fund receive the report on the projects. The research program the past year included eight studies, on such subjects as storage, materials for healing in nursery stock and plunging potted plants, materials used in the construction of beds and frames and a comparison of fabric preservatives to determine their effectiveness for treating burlap to prevent its rapid deterioration on baled nursery stock. Contributions were under way for continuing the research project the coming year.

As chairman of the committee on the taxus herbarium, Dr. L. C. Chadwick said that the collection now included 490 plants at Wooster, bearing ninety names, plus twenty at the university in the cutting or lining-out stages. Work on the nomenclature, through the comparison of the plants at the herbarium, is expected to be resumed with the later return of the



G. BRET SLEMMONS.

G. Bret Slemmons, who was advanced from vice-president to president of the Ohio Nurserymen's Association at its meeting last month, started in the landscape business about thirty-seven years ago.

Slemmons Gardens were founded in 1923 with the purchase of ten acres on the Olentangy River road, Columbus, O., on which were built a home office building and tenant house. The acreage of Slemmons Gardens has since been increased to thirty.

Mr. Slemmons is married and has three stepchildren. After World War II, his stepsons, Dick and Harley Bratton, returned from service to enter the business as partners. Harley recently finished a course in floriculture at Ohio State University and is in charge of the nursery, while Dick handles the outside work, planting, construction and selling.

graduate student who did some work on the project a year ago.

Harry S. Day reported on the loss of three members by death in the past year.

Raise Inspection Fees.

Opening the afternoon session, John W. Baringer, chief of the division of plant industry in the state department of agriculture, reported on activities of his division. Chief in importance was the change in the law last autumn, which increased fees so as to make the inspection service practically self-supporting, as a guard against the undue curtailment of the service when the legislature should cut appropriations. Payments were at the old rates last autumn, but he estimated that the new rates would raise approximately \$55,000 annually, compared to \$34,000 under the old law. The fee for inspection of hardy perennials was raised from \$10 to \$20, that of woody plant nurseries from \$20 to \$30, the acreage fee being raised from 25 to 50 cents. The fee for dealers in nursery stock was raised to \$20, though there is a provision for a \$5 fee for dealers who handle hardy bulbs only.

Progress is being made in control of the Japanese beetle, reported Mr. Baringer, even though the legislature cut the appropriation below that previously allowed. Cooperation of municipalities and others enabled his division to do the work thoroughly.

"Propagation of Clonal Selections" was the subject of a paper by Dr. F. L. O'Rourke, assistant professor of horticulture at Michigan State College, which he illustrated with some slides. He defined and discussed the term clone, as well as its importance and stability. Because of the variability encountered with plants of seedling origin, clones of superior merit should be selected for propagation. Some clones may be multiplied by cuttings of various types, while others are propagated by layering or grafting. Methods of propagation were discussed by Mr. O'Rourke in his paper, which will be presented in full in a subsequent issue.

A. A. N. Affairs.

Richard P. White, executive secretary of the American Association of Nurserymen, noted the prosperous outlook for the nurserymen of the country, but dwelled upon legislative problems, particularly postal rates, which may affect their business. In earlier discussion he pointed out that if mail-order nurserymen were deprived of business through higher postal rates and restricted deliveries,

it did not necessarily follow that the mail-order buyers would turn to other branches of the industry for their supply. Rather did he fear that such buyers would be lost altogether. Hence, he believed that it was to the interest of all branches of the industry to seek favorable postal rates and regulations, for the benefit of all, the public included.

At a later session, Howard P. Quadland, director of A. A. N. public information service, New York, spoke on "Market Development and Public Relations," with special reference to the "Plant America" program. While the project has been launched at the national level and has active support of the United States Department of Agriculture through its extension service, he urged that state and local organizations develop the program in conjunction with state extension officials and the county agents. At the final session, the Ohio Nurserymen's Association approved appointment by the executive committee of a public relations committee to act in this matter, and before the convention was over favorable response was obtained from some of the public officials mentioned at the beginning of this report.

The topic of "Climate Control, a New Way to Sell Nursery Products and Services" was developed by Dr. Joseph E. Howland, garden editor of House Beautiful magazine, New York, along the lines of his talks to nurserymen at New York and at Chicago, reported in the preceding issue. Reprints of the articles on climate control in his magazine were supplied members of the A. A. N., and some nurserymen have already

used this as an aid to sales. The possibilities are in proportion to the individual nurseryman's efforts to familiarize himself with the topic and its application.

Laborsaving Equipment.

The round-table discussion on "Time and Laborsaving Equipment for the Nurseryman," at the Friday morning session, was a feature of prime interest and deserving more space on the program, because the question period had to be curtailed to maintain the program schedule.

Louis Bookwalter, in his introduction as leader of the discussion, said it had been planned to aid the smaller nurserymen, because equipment of other types had been discussed in previous years.

Paul Aukeman, Hollandia Gardens, South Vienna, told of the attachments he used on a Ford tractor. He had used the plow, mower, weeder, heavy-duty loader, front-end bulldozer, subsoiler and posthole digger. The cultivator was not used for tilling, but, with adjustments, to mark rows before planting. He had good words to say for the trencher, digger and disk plow.

Carl Kern, Jr., Wyoming Nurseries, Cincinnati, said that his tests had supported the statement he had read that the *Juniperus virginiana* family was resistant to 2,4-D. He had used the chemical to kill weeds in the *J. virginiana* blocks, using as mild a formula as would do the work and using a power sprayer at the lowest pressure possible, about forty pounds. The spray kills weeds the most easily when they are small, and with this equipment he can get into the

[Continued on page 42.]



Waiting for Chow at "Ye Olde Tyme Dinner" of Ohio Nurserymen's Association.

Michigan Furthers "Plant America" Plan

The final action of the Michigan Association of Nurserymen, at its twenty-eighth annual convention, at Detroit, February 1 to 3, was to vote that the president appoint a standing committee to carry on in the state along the lines of the committee on market development and publicity of the national association, with particular view to activity in the campaign to "Plant America."

Not only is it proposed to stimulate the campaign at a banquet to be attended by state officials, including the governor, and representatives of other organizations furthering the undertaking, but also to spread recognition of this program of beautification and conservation by means of similar functions in other parts of the state.

This action followed discussion of the "Plant America" program which recurred during the sessions after James E. Ilgenfritz, Monroe, president of the American Association of Nurserymen, had discussed it in his address on "The American Association of Nurserymen—Its Purposes and Values," at the afternoon session, February 2. He also outlined the purposes of the national organization and told of the important work being done at the present time by its committees and the Washington office in respect to freight rates, express charges and proposed changes in postal rates and regulations.

Officers Elected.

Following the report of the nominating committee, presented by Clifford R. Emlong, chairman, the members elected as president Charles B. Greening, of the Greening Nursery Co., Monroe, who had served the past year as vice-president. Harold E. Hunziker, of M. J. Hunziker & Sons, Niles, was elected vice-president, and Bernard Ward, Ward's Flower Ranch, Lansing, was reelected secretary-treasurer in recognition of the untiring application he has given to the office.

Elected to the executive committee for two years were Ernest Durrant, Durrant Nursery, Grand Rapids, and John B. Light, Light's Tree Co., Richland. Holdover members of the executive committee are J. Joseph Poleo, of the Detroit branch of Ilgenfritz Nurseries, Inc., and John Stark, Stark Nursery, Midland.

President A. W. (Dick) Krieger opened the convention Thursday

morning with a short address, in which he dwelt upon the recent dedication of the greenhouse range at Michigan State College as the reward of several years' efforts on the part of the association. The association acts through its representatives on the Michigan agricultural marketing council and on the Michigan horticultural council. Bernard Ward is secretary of the latter organization. Nurserymen can expect to obtain more help on their problems by consulting with the staff at Michigan State College, said Mr. Krieger.

Wage and Hour Law.

Thomas A. Hermansen, investigation supervisor in the Detroit office of the wage and hour division of the United States Department of Labor, outlined some of the anticipated changes under the amendments to the wage and hour law as it applies to the nursery industry and then spent the remainder of an hour and a half in

answering questions of members with the use of chalk and a blackboard. He expressed the opinion that the revised law will give the employer protection not only against suits from employees on excessive claims for back wages, but also against the irritating necessity of keeping track of employees who do a small amount of work in covered employment while most of their work is exempt. Interpretive regulations covering the amendments had not yet been received from the director at Washington, said Mr. Hermansen, but from the attitude of Congress and the language of the amendments, it is possible that a small percentage of processing or other activity having to do with interstate commerce might be permissible without affecting the retail exemption status of a nurseryman. He urged, however, that every employer keep clear and adequate records, since these were the best evidence of his effort to comply with the law.

Salesmanship.

At the afternoon session, E. M. Miller, of the Human Engineering Institute of Kalamazoo, talked on "Salesmanship and Business Success." His theme was that the purpose of business is not to make a profit, but to render service. Hence, the effort should be to render the sort of service that gives satisfaction to the customer, obtains his confidence and secures lasting patronage. He stressed his thorough belief in the Rotary slogan, "He profits most who serves best."

The boss of the business, he observed, was not the proprietor, but the public that he served. The success of its business requires the co-operation of public, employees and owner. Everybody on the staff is a salesman insofar as he or she is in contact with the public.

Present conditions cry for more trained salesmen, asserted Mr. Miller. They must learn to differentiate between "suspects" and prospects. Knowledge of one's merchandise must be supplemented with knowledge of selling psychology, how to present sales points and how to continue the approach so that an actual order results.

He thought that the nurseryman might follow the lead of furriers, who advertise and sell their merchandise in the off season, collect for it in advance and deliver it when paid for. The nurseryman, he asserted, should



CHARLES B. GREENING.

Charles B. Greening, new president of the Michigan Association of Nurserymen and president of the 1,500-acre Greening Nursery Co., Monroe, Mich., represents the seventh generation of his family in the nursery business.

His great-grandfather, the descendent of a family who for three generations had conducted a nursery business in Germany, started the Greening Nursery Co. by planting seeds he had gathered from cider presses and the canning industry of his former employer. The firm, whose management has passed from father to son, will celebrate its one hundredth anniversary this year.

After graduation from the University of Michigan, Charles B. Greening spent two years in the navy.

Mr. Greening also is president of the Detroit flower show and trustee for the Michigan Horticultural Society.

"sell June in January," not ceasing their sales efforts when snow is on the ground, but taking advantage of customers' longing for the coming green of the spring season.

Research at Michigan Station.

At the concluding session, Friday morning, Dr. Clifford M. Hardin, director of the Michigan agricultural experiment station, spoke on "What's New in Research?" He said the federal, state and other funds expended at the station now amount to \$1,500,000 per year. Besides the main station at East Lansing there are six branch stations in other parts of the state. At the present time 300 research projects are going forward in these institutions.

Since the station covers all branches of agriculture, he mentioned a few research projects having to do with cattle, grain and beans which were of decided profit to the farmers of the state. At the present time many projects having to do with herbicides and plant growth regulators are being carried on, with striking results. Some of the chemicals employed are already known to nurserymen; it is possible that further ones may be found with more definite applications.

Business Session.

Bernard Ward, in presenting his report as treasurer, indicated income as approximately \$4,000 during the past year, with expenditures slightly less. Convention expenses amounted to \$2,450 and other expenses, \$1,415. Cash on hand at the end of the year was \$1,039.76, besides United States treasury bonds with an accrued value of \$1,003.30.

A small gain in membership was reported by Walter M. Coon, chairman of the membership committee. Active members totaled 111 and associate members fifty, with six applications to be considered by the executive committee at the close of the convention.

For the legislative committee, Charles B. Greening, chairman, said that while a personal property tax covering nurserymen's stock had been on the statute books since 1893, it had only been assessed in recent years. A few nurserymen felt the effects of the tax decidedly, though many were not assessed at all. He announced that a questionnaire would be sent out shortly to ascertain members' experience with the tax, so that the association would be guided in its actions on the matter.

Report of the resolutions committee was presented by Ernest Dur-

rant. One resolution ratified the actions of officers of the association in the past year. Another proposed sympathy and flowers to be sent to C. A. Krill, of the Prudential Nursery Co., Vicksburg, Mich., who was seriously ill at home. A third resolution expressed disapproval of changes in postal regulations in respect to the size of packages to be given delivery.

The time and place of the summer meeting of the association was left to the executive committee. Arthur L. Watson presented an invitation for the next annual meeting to be held at Grand Rapids, and he was subse-

quently appointed chairman of the convention committee for that event.

A. A. N. Chapter.

The Michigan chapter of the American Association of Nurserymen elected the same officers as those chosen for the Michigan association. A. W. Krieger and Charles B. Greening were elected as delegates to the next A. A. N. convention, to serve with Bernard Ward, whose term continues. Five alternates were chosen, because of the possibility that the chapter may be entitled to four convention delegates. Those chosen were Harold E. Hunziker, Harry E. Malter, Walter Coon, R. W. Steffer, Bay City, and John Keizer, Grand Rapids.

Social Events.

The convention opened on the evening of February 1 with an informal reception in the Sky room of the Hotel Fort Shelby, where a large number gathered for conversation, music and refreshments.

Preceding the banquet the following evening, Charles B. Greening entertained members of the association at a cocktail party in the same place to celebrate the one-hundredth anniversary of the Greening Nursery Co., which occurs this year.

The banquet was followed by a highly diverting and entertaining floor show, arranged by Joseph Poleo, whose talent was applauded. Dr. H. B. Tukey, head of the department of horticulture at Michigan State College, acted as toastmaster, wittily introducing the officers and guests at the head table, the members of the local committee and visitors.

The ladies were given special attention, with the Georgian room available each day for cards or visiting. Luncheon was given them in the Fort room, on Thursday, and was followed by a book review by Mrs. Anne Tracey. The ladies' committee, under Mrs. Walter M. Coon, as chairman, was composed of Mrs. A. W. Krieger, Mrs. Charles B. Greening, Mrs. William Conway and Mrs. J. Joseph Poleo.

The general convention committee was composed of Charles B. Greening, chairman; J. Joseph Poleo, Walter M. Coon, Farmington Gardens Nursery, Farmington, and William Conway, Pontiac Nursery Co., Romeo.

Trade Exhibits.

In the foyer of the meeting room was an elaborate display by the bureau of plant industry to indicate what diverse activities and responsibilities are filled by this Michigan state agency. In two adjoining rooms [Concluded on page 51.]



A. W. KRIEGER.

Retiring president of the Michigan Association of Nurserymen, A. W. (Dick) Krieger, part owner of Krieger's Wholesale Nursery, Bridgman, Mich., was reared on a fruit farm that eventually expanded into the nursery.

Born and educated at Bridgman, Mich., Mr. Krieger was 11 years old when his father died in 1918, leaving a widow and five children, the oldest of whom was 13. The family continued farming, growing nursery stock together with fruit. In 1930, it founded Krieger's Wholesale Nursery.

The business has expanded from the original twenty acres to 330 acres, all devoted primarily to growing nursery stock, with increasing emphasis on the commercial growing of blueberries. Large controlled cold-storage facilities are among the modern equipment.

Along with Mr. Krieger, who has charge of sales and business management, the company is operated by his older brother, Ernest, in charge of the shipping department and warehouse facilities, and a younger brother, Richard, supervisor of farm management and nursery production.

In recent years Mr. Krieger has served on the board of directors of the Michigan Association of Nurserymen and has three times been a delegate to the board of governors of the American Association of Nurserymen. He is on the board of directors of the National Mail Order Nurserymen's Association at the present time. He is also an active worker in local church and civic affairs. Mr. Krieger is married and the father of two children, Larry, 11, and Carol, 5.

Virginians Study Government Policies

By A. S. Gresham, Jr., Secretary

Protesting against deficit spending and all forms of planned economy as currently practiced by the federal government, the Virginia Nurserymen's Association concluded its annual winter meeting, held January 29 to 31 at Hotel John Marshall, Richmond, with a clarion call that America return to the principles of free enterprise and individual responsibility that made this nation great.

Setting a new pattern in the annals of the nursery conventions, the Virginia convention was devoted to a discussion of the current fiscal policies of the federal government and how to battle against government extravagance and paternalism. It was the first time the Virginia Nurserymen's Association had pushed trade talk to the background and tried to find an answer to the theme of the 3-day meeting, "What Are We Going to Do About It?"

Approximately 250 nurserymen from the state attended the convention, which was declared by Dr. Richard P. White, Washington, D. C., executive secretary of the American Association of Nurserymen, to be one of the most successful ever held in the nation. Nurserymen from Delaware, Maryland, New Jersey, New York, Alabama, North Carolina, Pennsylvania, Connecticut, Tennessee and Massachusetts also attended.

The answer to the theme was recorded in the adoption of a resolution presented on the final day of the meeting, in which the Virginia Nurserymen's Association declared itself "opposed to deficit financing as presently practiced by the federal government and against all forms of 'planned economy' by government fiat which is only a misleading term used to disguise the real program of socialism."

It further deplored the "tendency of local governments to surrender their prerogatives to the centralized federal government and the encouragement of this attitude through so-called federal grants or subsidies which are accomplished only by money taken from the people in the first place and only a portion of which is returned through these grants and/or subsidies."

Following the acceptance of this resolution by a unanimous vote of the delegation, representing more

than 200 nurseries in the state, the association endorsed the Hoover commission's report and directed that copies of all resolutions be sent to Virginia's congressmen and to all members of the general assembly which is currently in session at Richmond.

The group also adopted two resolutions presented by Owen G. Wood, Wood-Howell Nurseries, Inc., Bristol, a member of the legislative committee, declaring its opposition to the state's contemplated program of producing ornamental plants under the department of conservation as a



A. S. GRESHAM, JR.

Chosen as the nurseryman of the year by the Virginia Nurserymen's Association at its annual convention, A. S. Gresham, Jr., Gresham's Nursery, Richmond, was presented a certificate of merit by Dr. Richard P. White, executive secretary of the American Association of Nurserymen, and cited for his outstanding contribution freely given to the Virginia nurserymen.

Mr. Gresham opened his own nursery at Richmond in 1933 after leaving Watkins Nurseries, Midlothian, Va. Though Gresham's Nursery was somewhat limited in finances and size during its early days, its owner selling landscape work from his apartment, today it has grown to cover seventy acres and includes greenhouses and other equipment needed for propagating liners for wholesale. It is considered one of the most up-to-date and efficiently operated businesses in the state.

Actively interested in the Virginia Nurserymen's Association for the past fourteen years, Mr. Gresham served as president of the organization in 1940 and as secretary-treasurer for four years, in 1945 and 1946 and 1948 and 1949. He is the Virginia representative on the American Association of Nurserymen's national affairs committee and has served as delegate to the A. A. N. board of governors. He is also cochairman of the committee on local arrangements for the seventy-fifth annual convention of the A. A. N. this summer.

waste of taxpayers' money. The association also went on record as opposing the proposed changes in postal rates and size regulations of second-class mail.

Following the registration of the delegates on January 29, meetings of the special committees were held that afternoon. Later the nurserymen from the Richmond area were hosts at a supper. Then followed a 2-day study of government policies at which President Moultrie H. Lanier, Richmond, presided.

Dr. R. P. White set the keynote for the meeting on January 30 by declaring that through the years nurserymen have been sound businessmen, asking nothing for themselves but the privilege as Americans to labor at their tasks of beautifying the landscape of the nation. Today, however, the nurseryman finds himself surrounded by restrictions and regulations that encroach on his private enterprise and initiative.

Dr. White then introduced Leonard E. Read, president of the Foundation for Economic Education, Irvington-on-Hudson, N. Y., who spoke on "Table Stakes." Heading an organization which is dedicated to the proposition that the voluntary society, the free-market economy and limited government are the foundation of individual freedom and progress, Mr. Read declared that the collectivist philosophy prevalent in the world today has but one goal, which is to own and control production of industry.

That afternoon the convention heard Philip M. McKenna, chairman of the Gold Standard League, Latrobe, Pa., which is backing a gold standard bill before the present Congress.

Explaining that today's printing press currency allows the government a free rein in deficit spending, Mr. McKenna declared a return to the gold standard would result in more peaceful relations among nations, would act as an automatic check to control deficit spending and deficit financing by the government and would make bonds, insurance and other savings solid purchasing power.

United States Senator Harry Flood Byrd, Winchester, Va., addressed more than 350 nurserymen and guests at a banquet session January 30. Following his introduction by Owen G. Wood, Virginia's largest apple grower and senior senator in Congress acknowledged his presenta-

tion by declaring himself a nurseryman, too, since he planted and cultivated fruit trees.

Marshalling out facts and figures to support his thesis that the greatest weapon against socialism is a balanced budget, Senator Byrd said that "private enterprise is the greatest possession Americans have."

"Political parties come and go," Senator Byrd observed, "but the principles of democracy remain. Free enterprise and socialism cannot live under the same system of government." He then pointed out that socialism in the United States was coming in four ways; increased government competition with private enterprise; continuation of numerous price controls, such as rents and subsidies; increased taxation, and onslaught of deficit spending and debt. Senator Byrd concluded that America had only three courses to follow, which are to decrease taxes, balance the budget and stop socialized programs at the taxpayers' expense.

Dr. White, master of ceremonies at the banquet, presented a certificate of merit to A. S. Gresham, Jr., Gresham's Nursery, Richmond, secretary-treasurer of the association, who was chosen by the association as the nurseryman of the year, and he was cited for his "outstanding contribution freely given to the Virginia nurserymen."

The final day of the convention got off to a brisk start with a breakfast meeting at which time the group aired some of the pertinent problems of the industry in the Old Dominion. Final finishes were put on the reports of the special committees assigned to this convention, including the executive and the education and promotion groups which made their reports after the breakfast session.

Although most of the vocational problems were shunted to the background at this convention, reports of the four committees that were instrumental in planning this year's unique type of meeting were given.

Chairman A. J. Shoosmith, Southside Nurseries, Richmond, of the education and promotion committee, gave a concise report of the group's activities. Admitting that Virginia needed more teaching and research in the horticultural fields, he said that the nurserymen are not asking the state for additional appropriations. Currently, he said, the nurserymen are planning to conduct a short summer course in ornamental horticulture similar to the one held last year at Williamsburg under the joint sponsorship of the College of William and Mary and the Virginia Nursery-

men's Association. The cost of such training, however, will be borne by the students attending the school, he explained. One of the projects undertaken recently by the education and promotion committee was the presentation through publication of the story of the nursery industry in Virginia, which had never before been told or written.

Dr. Wesley P. Judkins, recently named head of the horticulture department at Virginia Polytechnic Institute, Blacksburg, spoke briefly, acquainting the nurserymen with his background and training to emphasize his understanding of the viewpoint held by the growers in regard to teaching and research facilities avail-

cious of trade problems, the meeting continued on January 31 with the theme of what the common man can do to protest effectively against the extravagance and bureaucracy of the government.

To resume the program theme John O. Williams, Richmond, chairman of the program committee, presented G. Edmond Massie, Richmond member of the Virginia house of delegates, whose subject was "False Prophets." Because of the great confusion existing in the minds of the people they are psychologically ready to follow any "false prophet" who offers peace and security, he said, warning the listeners to examine the "prophets'" offer to determine the true merits. If these schemes are contrary to the principles of the American free enterprise system, if they hamper individual initiative and restrict freedom, the system is un-American and false, he warned.

The final session was held at luncheon when Dr. Edward D. Grant, executive-secretary of the Presbyterian board of education, Richmond, spoke on "Does America Want Socialism?" David Laird, Richmond,

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Convention-bound Officers.

able in the Old Dominion. He expressed the hope that such facilities would be improved and extended to all growers of fruits, vegetables and ornamentals in the state.

Professor A. G. Smith, Jr., also at the institute, said that his work includes tentative plans to continue studies which were interrupted by World War II, in the bulb-growing industry in the Mathews-Gloucester counties area. He also urged the delegates to send him reports of their activities in the nursery industry for publication in the V. N. A. monthly bulletin, *News-Letter*, which he edits.

A code of ethics regulating the practices of the nursery business was presented for adoption by chairman of the ethics committee, Charles Kennedy, Falls Church. The matter was tabled for further study and will be taken up at the next meeting to be held in the Norfolk area in summer.

With this brief detour into a dis-

FLYING A. A. N. OFFICERS.

From the number of officers of the American Association of Nurserymen seen boarding a plane January 14 at Des Moines, Ia., it might have been possible that the group planned a meeting in the clouds. Having just attended the convention of the Iowa Nurserymen's Association at Des Moines, the group shown in the accompanying illustration was en route to Chicago to attend the convention of the Illinois State Nurserymen's Association. Four A. A. N. officers who made the trip were James E. Ilgenfritz, president; Wayne Ferris, vice-president; John Wight, treasurer, and Richard P. White, executive secretary. With them were Howard Quadland, A. A. N. public relations counsel; Robert Mullison, retiring president of the Western Association of Nurserymen and A. A. N. delegate, and Prof. Roy Marshall, Michigan State College. Clyde Heard, vice-president of the Iowa Nurserymen's Association, and his son, William, saw the group off and posed with them and United Air Lines stewardesses, Carol Cormack and Peggy Hendrickson. And it was another nursery association officer, Kimball Andrews, vice-president of the National Mail Order Nurserymen's Association, who caught the distinguished group with his camera.

Pennsylvanians Hear Predictions

By R. P. Meabl

The Pennsylvania Nurserymen's Association met at Philadelphia January 25 and 26, for its forty-sixth annual meeting, with President William M. Long, Southampton Nurseries, Southampton, presiding.

New officers chosen were Charles M. Boardman, Farr Nursery Co., Weiser Park, president; Owen B. Schmidt, F. D. Moore & Sons, Narberth, first vice-president; Eugene Muller, DeKalb Nurseries, Norristown, second vice-president, and Albert F. Meehan, Thomas B. Meehan Co., Dresher, was reelected secretary-treasurer. New members of the executive committee are John M. Eisler, Eisler Nurseries, Butler, and Jesse R. S. Flory, LaBars' Rhododendron Nursery, Stroudsburg. Continued on the executive committee are Albert F. W. Vick, Jr., Vick's Wildgardens, Narberth; Walter F. Stein, Enterprise Nurseries, Wrightsville, and Lewis E. Barr, B. F. Barr & Son Nurseries, Lancaster.

Open Forum Discussions.

The first meeting was an open forum held Wednesday morning, with John M. Stoudt, Farr Nursery Co., Weiser Park, as moderator. Among the topics discussed were employee relationships, successful use of broad-leaved evergreens, out-of-season employment for personnel and modern methods of mulching.

Regarding employee relationships, some nurseries reported the situation was not so good as had been hoped, even though group insurance had been taken out and longer vacations with pay had been given. All agreed that the men are interested in more pay and shorter working hours. Some nursery help is essentially of the farm type and it was suggested that such people often are a little suspicious of aid. If necessary, it is much better to lend money to an employee on a personal basis, rather than have the company do it. It is well to remember that employees are coworkers and should be treated on that basis. Many of the younger men are thinking of a future for themselves. They must be given a chance to work honestly and hard so that they can keep their own self-respect. Opportunities should be given for advancement, such as the chance to attend educational conferences.

The use of broad-leaved evergreens on a larger scale was recommended. The hollies are a group from

which a wide assortment may be chosen, especially varieties of *Ilex crenata*. Hollies are versatile and hardy and will grow in a wide range of soil-moisture levels. Rhododendrons are excellent plants, but if used in limestone soil areas, will require special attention. Certain diseases may show up on plants, among which is stem rot. Plants in limestone soil seem to be more sensitive. Deep planting or too much mulching may also result in affected plants. Kalmia leaf spot has been successfully con-



Charles M. Boardman.

trolled by spraying with Fermate, using eleven sprays starting in early June or late May.

Out-of-season employment has been partially solved by some nurseries by growing Christmas trees and making Christmas decorations. It was suggested that trees or branches could be flocked with white cotton or rayon to look like snow and would bring a higher price. This operation may be started in early October and carried on until Christmas. Other suggestions with merit were sawing firewood, pruning trees and potting small plants for spring sales.

In the discussion on mulching, fresh and well rotted sawdust were reported as giving good results. Buckwheat hulls proved satisfactory if used no deeper than one and one-half inches, but caused some damage to the stems of the plants when used more deeply.

At the luncheon period Mayor

Bernard Samuel of Philadelphia extended a welcome to the association. He spoke of the value of growing things, such as trees, to the city, the state and the nation. He particularly commended the nurserymen for their program, "Plant America."

Association Activities.

In the opening business session, President Long reviewed the activities of the past year. He called attention to the sectional meetings held monthly at Lancaster and Narberth where considerable interest and good fellowship has been developed. An illustration of this was the combined picnic sponsored by two firms for their employees.

Another achievement has been the adoption of group insurance by the association. This has been received favorably by all who joined. It is hoped that other firms will join in this plan.

A certificate of membership, suitable for framing and display in the office, has been prepared and is ready for distribution. There is a good possibility of each nursery in the state being assigned a permanent license number by the department of agriculture. It is thought this stability would be desirable in selling to the general public.

Secretary Albert F. Meehan reported twenty-six new members were received in 1949, and five new ones already have been received in 1950 plus one associate member.

Report from A. A. N.

Curtis H. Porterfield, administrative assistant of the American Association of Nurserymen, spoke briefly concerning the national association. He said there were 1,264 members in the A. A. N., which is an all-time high, and several applications are on hand for processing. During the year there will be a horticultural census which will be useful to the trade if members cooperate in giving information. The program for the seventieth anniversary convention of the A. A. N., to be held at Washington, D. C., the week of July 16, was outlined.

Mr. Porterfield posed the question, "Where Are We Going?" He believes the trend is more and more toward social legislation. The minimum hourly wage has been increased to 75 cents and may go higher. Nurs-

[Continued on page 55.]

Arborists' Day Starts Ohio Short Course

By Everett Janne and Charles Dickinson

The twenty-first annual short course conducted by the horticulture department of Ohio State University for arborists, landscape gardeners and nurserymen convened in the Junior ballroom of the Neil House, Columbus, January 23 to 25, under the direction of Dr. L. C. Chadwick. The usual high interest was displayed, and 250 persons from all points in Ohio registered and some seventy-five from fourteen other states and Canada, making a total registration of 325 persons.

Liquid Tree Fertilization.

The first day was arborists' day and was arranged in conjunction with the Ohio chapter of the National Shade Tree Conference. The first subject, "Liquid Fertilization of Shade Trees," was discussed by Prof. D. C. Kiplinger, department of horticulture, and Norman Armstrong, arborist, White Plains, N. Y.

The scientific approach was discussed by Mr. Kiplinger, and he opened his talk by stressing the inefficiency of most organic fertilizers and insisted that a fertilizer should be judged by the cost per pound of the element desired. The brand of fertilizer is immaterial as long as the desired nutrient is present.

For instance, for an ammonium sulphate fertilizer, analyzed at 20-0-0, costing \$50 per ton, or 2½ cents per pound, the cost of the fertilizer per pound of the nutrient element nitrogen would be 12 cents per pound. A 35-0-0 ammonium nitrate fertilizer, costing \$60 per ton, or 3 cents per pound, makes the cost of the fertilizer per pound of nutrient element nitrogen come to 8 cents per pound. A 46-0-0 urea of Uramon fertilizer, costing \$130 per ton, or 6½ cents per pound, makes the cost of the fertilizer per pound of the nutrient element nitrogen come to 16½ cents per pound. Monoammonium phosphate, with an 11-48-0 analysis, costing \$195 per ton, or 9¾ cents per pound, costs 16½ cents per pound for the nutrient elements nitrogen and phosphate. Diammonium phosphate, at 21-53-0, costing \$195 per ton, or 9¾ cents per pound, makes the cost of the fertilizer per pound of the nutrient elements nitrogen and phosphate come to 11.6 cents per pound. And muriate of potash, giving an analysis of 0-0-60, costing \$50 per ton, or 2½ cents per pound, would cost 4.3 cents per

pound of the nutrient element potash.

A formula which Mr. Armstrong suggested for fertilizing shade trees was fifteen pounds of ammonium sulphate, ten pounds of diammonium phosphate and thirty pounds of muriate of potash. This gives thirty pounds of a fertilizer mixture analyzing 17-17-10 and costing about 5 cents per pound on the basis of the above-mentioned examples.

The thirty pounds of this 17-17-10 fertilizer should be placed in 100



Dr. L. C. Chadwick.

gallons of water, a dilution of approximately one pound per three gallons of water. Using the fertilizer at the rate of two pounds per inch diameter of the tree, the number of gallons of water is as follows: 2-inch tree, twelve gallons; 4-inch tree, twenty-four gallons; 6-inch tree, thirty-six gallons; 8-inch tree, forty-eight gallons, etc.

Other advice from Professor Kiplinger was to fertilize only on moist soil and if using blood to use it with a wetting agent such as Dreft or Oxydol so that the blood will go into solution.

The arborists' conception and practices were given by Mr. Armstrong. He reported results of a survey of arborists, among them that liquid fertilizers are unsatisfactory on heavy soils, they have been used in orchards and liquid manures may give off toxic gases; so good aeration is needed. August P. Beilmann suggests that feeding reduces the water requirement and makes the trace element available, 10-8-6 is a standard fertilizer and a readily available fer-

tizer should be used. Charles F. Irish suggests that aeration is more important than fertilization.

The rate of fertilization suggested by Dr. Beilmann is one pound for each inch in circumference plus one pound for each foot in height plus one pound for each foot of branch spread. Dr. Chadwick suggests one-fourth pound of nitrogen to each inch in diameter of the tree trunk for one inch up to six inches. Above 6-inch diameters, one-half to each inch should be used.

Other suggestions were to correct the soil pH, mulch when conditions will permit and keep case records. July is the best time to fertilize. If corncobs or straw is used as a mulch, nitrogen should be added to maintain the nitrogen level.

Summer Tree Transplanting.

Prof. Theodore F. Mathieu, school of arboriculture, University of Massachusetts, Amherst, speaking on "Experiences with Summer Transplanting of Shade Trees," included a report on the opinions of various arborists who supplied data to answer questionnaires sent them on this subject.

It is their general opinion that trees can be moved successfully in the summer. The use of hormones and antidesiccants should improve the results of this practice. Mr. Irish stated that he thought that some trees could be moved in late summer with less retarding of growth than if moved during the winter months. Dr. Beilmann believes that there is a dormant period during the summer that is almost as complete as during the winter.

Professor Mathieu pointed out the influences of physiological functions on plant growth. Air, optimum organic and inorganic matter, optimum soil water and optimum nutrients all play important parts in plant growth. He emphasized the necessity of maintaining the conductive tissues in a functioning condition and told how all of these are linked with the physiological functions to develop root growth. The importance of production and translocation of hormones was also emphasized.

After coordinating the answers on the questionnaire with physiological facts known, Professor Mathieu suggests that the best time to transplant is when the summer wood is being

[Continued on page 65.]

Landscapers' Day at Ohio Short Course

By Everett Janne and Charles Dickinson

The second day of the annual short course for arborists, landscape gardeners and nurserymen, held January 23 to 25 at the Neil House, Columbus, O., under the sponsorship of the department of horticulture of Ohio State University, was entirely devoted to discussions for landscape men.

To open the program Prof. Victor H. Ries, department of horticulture, gave an enjoyable lecture illustrated with lantern slides which was entitled "Have You Tried These Herbaceous Plants?" During the past summer Professor Ries made a trip through the western part of the United States where he photographed many new and unusual plants, and his slides and comments were chiefly from the collection made on this trip.

Turf Problems.

A great deal of interest was displayed in the talk by Harold W. Glissman, superintendent of grounds, Father Flanagan's Boys' Home, Boys' Town, Neb., as he reviewed "Some Problems in the Establishment and Maintenance of Turf." He believes aeration and drainage are the prime factors in the establishment and maintenance of turf. To avoid compaction, proper preparation of soil before seeding is of great importance.

He does not plow areas to be turfed because of the difficulty in leveling them to the desired grade. Instead, he uses a spring-tooth cultivator with shovels two inches wide and spaced one foot apart. If necessary, the operation can be repeated in the opposite direction. The large lumps are handled with a 36-inch power take-off tiller or pulverizer. Next the baby-type tiller is used.

If organic matter is needed one-half inch of well rotted manure or peat may be worked into the soil. Often some sand or gravel is helpful in bringing about the desirable air and moisture relationship if worked in deeply, but never have more than fifteen to twenty-five per cent of sand or gravel in a topsoil mixture.

Work at least one cubic yard of horticultural peat or peat soil and about fifty pounds of a commercial fertilizer to each 1,000 square feet of soil area.

Seed at the rate of about five pounds of the best seeds obtainable to each 1,000 square feet. Use a good seeder to distribute the seeds. Mr. Glissman prefers a mixture of fifty per cent Alta fescue, forty per

cent Kentucky bluegrass and ten per cent Highland bent for his region. Firm the seeds in the soil with a roller. Fall planting should be practiced as much as possible to avoid weeds and heat difficulties.

Mr. Glissman suggests working closely with the architect and client in such matters as building grade lines, storm sewers, inlets, locations, etc. A good policy is to submit your ideas in writing; then it will not be necessary to apologize later.

Mr. Glissman stressed the necessity of good judgment in watering. One should water neither too much nor too little. Although not always practical, he recommends watering between midnight and 8 a. m. It will help to some degree in controlling fungi, allow moisture to remain longer on the surface and will give more benefit for the money expended. Young grass should not be exposed to sun in 90-degree temperatures without some water protection. If a watering system is installed, be sure that it is properly engineered as to drainage and coverage.

Concerning mowing, he recommends this operation be done every four or five days, or at least often enough so that the clippings cannot be seen after the first day.

Mr. Glissman said not to fertilize until after the first cutting. If a shot-in-the-arm application is needed, fertilize only on a thirty to fifty per cent basis. He refused to name one brand of fertilizer as being better than another. Along with some commercial fertilizers he uses feed lot manure that has as little hay and straw with it as possible. Fall and winter are the most desirable seasons to fertilize. If done in the spring, do not use high-nitrogen fertilizers.

Leaf spot on bluegrass can be controlled by spraying. Arsenate of lead applied every two years will keep down grub infestation. Webworms can be controlled by pyrethrum. Arsenate of lead has been effective in the control of crab grass if applied when plants are young; 2,4-D is also used for weed control in turf.

Concerning some of the newer grasses, Mr. Glissman says that Alta fescue and Kentucky 31 fescue are replacing Kentucky bluegrass in many of the better mixtures. Those two grasses along with U-3 Bermuda and zoysia are proving themselves from Washington, D. C., to St. Louis.

Concluding his interesting discussion, Mr. Glissman showed some interesting slides of his equipment, buildings and other views at Boys' Town.

Rhododendrons and Azaleas.

Henry T. Skinner, Morris Arboretum, Philadelphia, spent forty-five minutes discussing "Rhododendrons and Azaleas," but did not attempt to go into detail on the culture of these plants, though he did mention a few points. These shrubs generally grow in soil with a pH of from 3 to 5.5. If abundant organic material is used in the form of acid peat a pH of 6 can be tolerated. The beds are dug from one foot to eighteen inches deep, with leaf mold and peat incorporated in the soil. After planting, the area is mulched with leaf mold or with sawdust if not too fresh. Or if the sawdust is fresh, nitrogen should be applied simultaneously.

The selection of varieties grown in a particular region is governed chiefly by their hardiness and by their ease of propagation. Unless a variety can

[Continued on page 70.]



Speakers at landscapers' program. Left to right: Prof. L. R. Quinlan, Victor H. Ries, H. W. Glissman and Carl Ray.

Ohio Short Course Nurserymen's Day

By Everett Janne and Charles Dickinson

The third day of the short course for arborists, landscape gardeners and nurserymen held January 23 to 25 at the Neil House, Columbus, O., and sponsored by the department of horticulture, Ohio State University, was nurserymen's day.

Interpreting Soil Tests.

"The Importance and Interpretation of Soil Tests" was the subject of a talk by Dr. Ray Hasek, department of horticulture, in which he defined soil testing as a chemical analysis of the soil in order to obtain an indication of the possible supply of nutrients in the soil. Soil testing should not be considered as a cure-all for the many difficulties encountered in growing plants. Instead, it should be considered as another tool which steps up the efficiency of operation in the nursery or greenhouse. Dr. Hasek compared plant production to the assembly-line production of any other product. Any operation which speeds up the assembly line and allows more efficient production means a decrease in costs and a more rapid turnover of the product, and that is just good business.

He pointed out that the nurseryman is selling "plant growth"; therefore, any means which will expedite the production of good plants is an asset to the nurseryman. Soil testing is such a means. By proper interpretation of the data obtained through soil tests one can avoid or overcome deficiencies of essential nutrients in the soil before such deficiencies can be detected in the appearance of the plants. In the same manner, one is also able to avoid the possibility of overfertilization.

Instead of using a complete fertilizer at regular intervals, Dr. Hasek stated that through the use of soil tests nutrient levels can be determined and fertilizer applications made accordingly. If the nitrate level is low and the potassium and phosphorus levels are high, it would be a waste of fertilizer to apply a complete fertilizer when a nitrogen carrier would suffice.

In explaining the importance of the various elements, Dr. Hasek pointed out that nitrogen is essential to the formation of chlorophyll and proteins, to cell division and to growth. Phosphorus is needed for nuclear proteins, cell division and growth. The role of potassium is that of a catalyst or regulator. It controls the speed as well as the possibility of ordinary plant

processes, such as growth. Calcium is an important constituent of cell walls.

He explained pH as a scale used to show the degree of acidity or alkalinity of a soil. The figure 7 is neutral, and anything higher than 7 is alkaline, and less than 7 is acid. The best pH range for most plants is 5.5 to 7. For some ericaceous plants a pH of about 4 is desired.

The soluble salt content of the soil is expressed in terms of electrical resistance. The upper limits of the soluble salt content should not be above eighty to 100. Anything above this is likely to cause injury to the plants.

The most common way of expressing the nutrient level of a soil and the one in use at Ohio State University is in parts per million (ppm). Another method often used is pounds per acre. Fortunately plants grow well over a wide range of nutrient levels. The optimum nutrient levels to maintain for most plants are as follows: Nitrogen, 25; phosphorus, 2½ to 5; potassium, or kalium, 20+, and calcium, 150 to 200.

Iron is essential for plant growth, but the test for it is not very accurate. In most soils iron is not deficient when the pH is in the acid range. When iron is deficient it is best to make repeated small applications of iron sulphate instead of one large application.

In closing, Dr. Hasek stressed that soil tests are only as accurate as the sample taken. In field areas the sample should be taken from several places. It is best to take eight to ten uniform slices of soil down to the plow depth or through the root zone. These soils should be uniformly mixed and the sample taken from this mixture.

A lively question-and-answer pe-

riod followed Dr. Hasek's talk. In answer to the question of how to reduce the concentration of soluble salts in the soil, he replied that good drainage, either natural or tile drainage, is essential. In potting soil, heavy applications of water to leach out the salts is beneficial.

The iron content of the soil may be adjusted by incorporating iron sulphate with the soil prior to planting time and applying iron sulphate or aluminum sulphate to adjust the pH. A standard application of iron sulphate is two pounds to 100 square feet, or 500 to 600 pounds per acre. It is better to make several light applications rather than one heavy application.

If applied in dilute form, it is possible to use liquid fertilizer in a dry season. It is doubtful that a phosphorus and potassium reserve can be built up in a sandy soil.

Another question was, "How long after a fertilizer has been applied to the soil will it have an effect on the soil test?" Dr. Hasek replied that this would vary with the type of fertilizer used, type of soil and weather conditions.

It is possible to determine the analysis of a fertilizer by the use of the soil test methods if done by a reliable chemical technique.

B. C. Smith, department of horticulture, limited his discussion to the proper methods of handling small quantities of seeds in a talk on "Cleaning and Processing Seeds of Nursery Plants."

Mr. Smith concluded by stating that no one method of cleaning seeds would work for all types of seeds. The important thing to remember is to adopt the method that gives the greatest

[Continued on page 73.]



Speakers on nursery program. Left to right: Dr. L. C. Chadwick, E. E. Janne, Arthur Slavin, James S. Wells and B. C. Smith.

WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

NUT TREES

	Per 10	Per 100
Black Walnut.	\$ 6.00	\$ 50.00
2 to 3 ft., T.	7.50	65.00
3 to 4 ft., T.	9.00	80.00
4 to 6 ft., T.	12.50	115.00
6 to 8 ft., T.	16.50	150.00
8 to 10 ft., T.	18.00	165.00
Filbert, American.	5.00	45.00
18 to 24 ins.	6.50	60.00
2 to 3 ft.	9.00	85.00
3 to 4 ft.	12.50	115.00

SHRUBS

	Per 10	Per 100
Althaea, Red, Purple,	\$ 4.50	\$ 35.00
White, Pink, 3 to 4 ft.	7.50	65.00
Althaea, Red, Purple,	6.00	50.00
White, Pink, 4 to 5 ft.	4.50	40.00
Crape Myrtle, Red, Pink,	6.50	55.00
Purple, White, 2 to 3 ft.	3.50	30.00
Regel Privet, 2 to 3 ft.	4.50	40.00
Regel Privet, 3 to 4 ft.	4.50	40.00
Spiraea Billardi and		
Korean, 2 to 3 ft.	4.50	40.00
Spiraea Billardi and		
Korean, 3 to 4 ft.	4.50	40.00

SHADE TREES

	Each	Per 10	Per 100	Per 1000
Elm, American.	\$ 1.50	\$ 14.00		
6 to 8 ft.	2.25	21.50		
10 to 12 ft.	2.65	25.00		
2½ to 3-in. caliper.	4.75	45.00		
Hackberry.				
5 to 6 ft.	1.75	16.00		
6 to 8 ft.	2.25	21.50		
8 to 10 ft.	3.00	27.50		
Maple, Silver.				
6 to 8 ft.	1.35	12.50		
8 to 10 ft.	1.75	16.00		
10 to 12 ft.	2.25	21.50		
1½ to 2-in. caliper.	3.00	27.50		
2 to 2½-in. caliper.	4.50	42.50		
Poplar, Lombardy.				
1-yr. from cuttings.				
18 to 24 ins.		\$ 3.00	\$ 25.00	
2 to 3 ft.		5.00	40.00	
3 to 4 ft.		6.00	50.00	
4 to 5 ft.		8.00	70.00	
Poplar, Lombardy,				
transplanted.				
5 to 6 ft., 2-yr.	4.50	35.00		
6 to 8 ft., 3-yr.	6.00	50.00		
8 to 10 ft., 3-yr.	7.50	65.00		
10 to 12 ft., 4-yr.	12.00	100.00		
2 to 3-in. caliper.	25.00	225.00		
Willow, Weeping.				
5 to 6 ft.	1.10	10.00		
6 to 8 ft.	1.60	15.00		
Willow, Pussy (<i>Salix discolor</i>).				
5 to 6 ft.	7.50	65.00		

EVERGREEN AMUR RIVER PRIVET

	Per 100
3 to 4 ft., heavily branched.	\$15.00
4 to 5 ft., heavily branched	25.00

SHRUBS - Continued

	Per 10	Per 100
Spiraea Vanhouttei,	\$ 3.00	\$ 25.00
2 to 3 ft.		

	Per 10	Per 100
Spiraea Vanhouttei,	3.50	30.00
3 to 4 ft.		

	Per 10	Per 100
Weigela Abel Carriere and	3.50	30.00
Rosea, 18 to 24 ins.		

	Per 10	Per 100
Weigela Abel Carriere and	5.00	50.00
Rosea, 2 to 3 ft.		

EVERGREENS

	Each	Per 10
Taxus Hicksii.	\$ 2.75	\$ 25.00
15 to 18 ins.		

	Each	Per 10
Taxus Hicksii.	3.50	32.50
18 to 24 ins.		

	Each	Per 10
Taxus Hicksii.	4.25	40.00
24 to 30 ins.		

	Each	Per 10
Taxus Hicksii.	5.50	50.00
30 to 36 ins.		

	Each	Per 10
Taxus Hicksii.	7.00	70.00
36 to 42 ins.		

EVERGREENS - Continued

	Each	Per 10
Kalmia Latifolia.	\$ 2.00	\$ 17.50
18 to 24 ins.		

	Each	Per 10
Kalmia Latifolia.	2.50	22.50
2 to 3 ft.		

	Each	Per 10
Kalmia Latifolia.	3.50	32.50
3 to 4 ft.		

	Each	Per 10
Kalmia Latifolia.	2.25	20.00
2 to 3 ft.		

	Each	Per 10
Kalmia Latifolia.	3.00	27.50
3 to 4 ft.		

	Each	Per 10
Kalmia Latifolia.	4.50	40.00
4 to 6 ft.		

	Each	Per 10
Rhododendron Maximum.	2.00	17.50
18 to 24 ins.		

	Each	Per 10
Rhododendron Catawbiense.	2.50	22.50
2 to 3 ft.		

	Each	Per 10
Rhododendron Catawbiense.	3.50	32.50
3 to 4 ft.		

	Each	Per 10
Pomegranate, puddled roots.	1.00	9.00
2 to 3 ft.		

	Each	Per 10
Pomegranate, puddled roots.	1.35	12.50
3 to 4 ft.		

	Each	Per 10
BOXWOOD, SEMPERVIRENS	\$ 4.50	\$ 40.00
Transplanted, puddled.		

	Each	Per 10
Cl. Mrs. du Pont, Cl. Talisman, Cl. American Beauty.	6.50	55.00

POLYANTHAS

	Each	Per 10
Golden Salmon, Ideal.	8.00	70.00

FRUITS**APPLE**

	Each	Per 10	Per 100
2 and 3-yr., 11/16-in., 5 to 7 ft.	\$ 0.60	\$ 4.50	\$ 35.00
2-yr., 9/16-in., 4 to 6 ft.	.50	4.00	30.00
2-yr., 7/16-in., 3 to 4 ft.	.40	3.00	25.00
3-yr., 1/2-in. cal.	.75	6.00	50.00

	Each	Per 10	Per 100
Lowry			
M. B. Twig			
Maiden Blush			
N. W. Greening			
Paragon Winesap			
Stayman			
Summer Yellow Delicious			
Turley			
Winesap			
Winter Banana			
Yellow Transparent			
York Imperial			
Yorking, U. S. Patent No. 125			

	Each	Per 10	Per 100
KIEFFER PEAR			
1 to 1½-in. cal.	\$ 1.25	\$ 11.00	...
¾ to 1-in. cal.	.75	6.50	\$ 60.00
11/16-in. cal.	.50	4.50	40.00
9/16-in. cal.	.40	3.50	30.00

	Each	Per 10	Per 100
LARGE MONTMORENCY CHERRY			
11/16-in. cal.	\$ 1.00	\$ 9.00	\$ 85.00
¾ to 1-in. cal.</			

Western New York Meeting

By A. Synesael, Secretary

The annual meeting of the Western New York Nurserymen's Association was held January 20 at the Hotel Seneca, Rochester, with President Merton Congdon, H. E. Congdon Nursery, North Collins, presiding.

Besides President Congdon, the officers reelected for the following year are the three vice-presidents, Phillip White, White Nursery Service, Mecklenburg; Robert Auld, Auld's Garden Shop, Kenmore, and Allyn P. Hoffman, Hoffman Nursery Co., Elmira, and secretary-treasurer, A. Synesael, Jackson & Perkins Co., Newark.

Holding one-year terms as directors of the state association are T. Raymond Rice, Maxwell, Bowden & Rice, Inc., Geneva, and R. L. Holmes, Jackson & Perkins Co., Newark. Two-year directors are E. B. Stedman, Stedman Nurseries, Newfane, and John W. Kelly, Kelly Bros. Nurseries, Inc., Dansville, while the alternates are Robert Auld, Merton L. Congdon, Phillip White and L. J. Engleson, C. W. Stuart & Co., Newark.

At the meeting of the Western New York chapter 14 of the American Association of Nurserymen, officers were elected as follows: R. L. Holmes, chairman; John W. Kelly, vice-chairman, and A. Synesael, secretary.

The program was opened by Frank E. VanLare, vice-mayor of Rochester, who officially welcomed the nurserymen to the city, and then the re-

Dr. A. B. Buchholz, director of the state bureau of plant industry, Albany, commented on the dangers of

MERTON L. CONGDON.

Now serving as president of the Western New York Nurserymen's Association, Merton Congdon was born May 1, 1913, on the nursery where he still resides at North Collins, N. Y. His father, Herbert E. Congdon, was connected with the nursery business from 1894 until the time of his death in 1926.

Upon completing high school Mr. Congdon entered into partnership with his brother Ivan, operating as the H. E. Congdon Nursery. Starting with less than twenty acres of land, the firm now has well over 100 acres of nursery stock in highly concentrated planting. Beginning with the planting season of 1950 the two brothers plan to operate independently, both still specializing in the wholesale growing of deciduous shrubs and small fruit plants.

Mr. Congdon is secretary of his local Rotary Club, master of his local Grange and actively interested in trade associations.

the spreading of the golden nematode and said that the Japanese beetles and European chafer beetles were being controlled. He stated that nurserymen in some states were ad-

YORK is doing as well as any other state in virus control and that regular inspections are being made of all nurseries.

In referring to raspberries, Dr. Buchholz cautioned all nurserymen to sell only certified stock and to buy only from sources fully certified. Because of dangers in handling uncertified plants, he warned that it is within the power of his department to revoke a certificate of inspection.

He also mentioned that the Dutch elm disease has been found in this area and that it is now definitely established and here to stay, but that there is no cause for alarm at present. The department is doing all it can to keep the disease under control. The best preventive to date, according to Dr. Buchholz, is to remove diseased trees and to use sanitation methods.

Karl Brase, New York agricultural experiment station, Geneva, gave a complete report on rootstocks, their habits and diseases. Dr. William E. Snyder, department of floriculture and ornamental horticulture, Cornell University, Ithaca, reported on work being done there in the interests of nurserymen.

James IE. Ilgenfritz, president of



Merton L. Congdon.

vertising virus free stock, which is absolutely ridiculous. It is not possible to be sure that stock is virus-free, and it is not good practice to advertise it as such. He further stated that New

HEMLOCK

(*Tsuga Canadensis*)

	Per 100
18 to 24 ins., XXX, sheared, B&B	\$175.00
2 to 2½ ft., XXX, sheared, B&B	225.00
2½ to 3 ft., XXX, sheared, B&B	300.00
3 to 3½ ft., XXX, sheared, B&B	350.00

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RHODODENDRON — KALMIA — AZALEAS

Japanese Beetle B Certificate on All Shipments

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CALICOON, N. Y.

EUONYMUS RADICANS VEGETUS FOR LINING-OUT

1-yr., 2½-in. pot plants, 6 to 8 ins., tops.

Ready for shipment now or in the spring.

\$17.50 per 100	\$150.00 per 1000
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JAMES I. GEORGE & SON

FAIRPORT, N. Y.

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WEEKS' "California-grown, Quality Known"

Bare-root Roses

LIMITED QUANTITIES

NO. I	NO. II/2
APPLAUSE	APPLAUSE
BABY CHATEAU	AUTUMN
BRANDYWINE	BETTER TIMES
CONDESA DE SASTAGO	BRANDYWINE
COUNTESS VANDAL	CHRISTOPHER STONE
DAINTY BESS	CONDESA DE SASTAGO
DICKSON'S RED	DAINTY BESS
DUCHESS OF ATHOL	DEBONAIR
DIAMOND JUBILEE	FANDANGO
EDITH N. PERKINS	FRAU KARL DRUSCHKI
FEU JOSEPH LOOYMANS	HADLEY
FIESTA	HOOSIER BEAUTY
GENERAL MacARTHUR	LULU
GOLDEN SASTAGO	MARY HART
GLORIUS	MRS. E. P. THOM
HADLEY	MRS. SAM McGREDY
HEART'S DESIRE	NIGHT
HINRICH GAEDE	NOCTURNE
HOOSIER BEAUTY	PICTURE
J. OTTO THILOW	PINK DAWN
K. A. VIKTORIA	PRES. HOOVER
KATHERINE T. MARSHALL	RED SWEETHEART
LADY FORTEVIOT	ROSE MARIE
LULU	SAN FERNANDO
MARGARET McGREDY	SANTA ANITA
MARY HART	SNOWBIRD
MARY MARGARET McBRIDE	TALISMAN
McGREDY'S YELLOW	TALLYHO
	THE DOCTOR
	CL. BELLE OF PORTUGAL
	CL. NIGHT
	CL. PRES. HOOVER

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1,000,000 Transplanted Liners, well grown, hardy stock.

Heavy liners from field beds of 1, 2 and 3-year plantings. X indicates times transplanted. 26 of a kind at 100 rate; 300 of a kind at 1000 rate. Shipped express or parcel post. Terms: Cash with order and packing free; otherwise 1/3 deposit, balance C.O.D., and packing charged at cost. Japanese beetle certification provided upon request. Write for our latest listing of nursery stock. Ready now.

	100 rate each	1000 rate each
<i>Althaea (Hibiscus Syriacus)</i> , Rose of Sharon, 5 to 10 ins. adig., 1-yr...	\$0.03	\$0.02
<i>Althaea (Hibiscus Syriacus)</i> , Rose of Sharon, 10 to 20 ins. adig., 2-yr...	.05	.03
<i>Azalea mollis</i> , 6 to 9 ins. XX, 3-yr. branched...	.45	.40
<i>Azalea mollis</i> , 9 to 12 ins. XX, 3-yr. branched (B&B add 25¢)...	.65	.55
<i>Azalea mollis</i> , 12 to 15 ins. XX, 4-yr. branched (B&B add 25¢)...	1.00	..
<i>Azalea mollis</i> , 15 to 18 ins. XXX, 4-yr. branched (B&B add 25¢)...	1.25	..
<i>Berberis thun. atropurpurea</i> , 8 to 12 ins. X, 2-yr...	.17	..
<i>Buxus sempervirens</i> , 4 to 8 ins. XX, 2-yr...	.18	..
<i>Buxus wellieri</i> , 2 to 6 ins. X, 1-yr...	.18	..
<i>Buxus wellieri</i> , 2 to 8 ins. X, 2-yr...	.25	..
<i>Calycanthus floridus</i> , 4 to 10 ins. adig...	.05	.04
<i>Chamaecyparis lawsoniana</i> , 8 to 10 ins. adig., 2-yr...	.10	.08
<i>Chamaecyparis laws. alnum</i> , X, 6 to 10 ins. 1-yr...	.15	.13
<i>Chamaecyparis laws. alnum</i> , X, 10 to 15 ins. 2-yr...	.20	.18
<i>Chamaecyparis pisifera aurea</i> , 4 to 8 ins. X, 1-yr...	.15	.12
<i>Chamaecyparis pisifera aurea</i> , 6 to 10 ins. X, 1-yr...	.15	.12
<i>Cytisus purpureus</i> , Scotch Broom, X, 2-yr...	.15	.12
<i>Elaeagnus angustifolia</i> , adig., 1-yr...	.05	..
<i>Euonymus carrierei</i> , 4 to 8 ins. X, 1-yr...	.10	.08
<i>Euonymus carrierei</i> , 6 to 10 ins. XX, 2-yr...	.15	.12
<i>Euonymus carrierei</i> , 9 to 12 ins. XXX, 3-yr. cutback...	.25	.20
<i>Euonymus coloratus</i> , 4 to 8 ins. X, 1-yr...	.10	.08
<i>Euonymus coloratus</i> , 6 to 12 ins. XX, 2-yr...	.18	.16
<i>Euonymus fortunei erectus</i> , 4 to 8 ins. X, 1-yr...	.10	.08
<i>Euonymus fortunei erectus</i> , 8 to 12 ins. XX, 2-yr...	.18	.15
<i>Euonymus patens</i> , 4 to 8 ins. X...	.12	..
<i>Euonymus vegetus</i> , 4 to 8 ins. X...	.12	.08
<i>Ilex crenata</i> , 4 to 5 ins. X, 1-yr...	.12	.11
<i>Ilex crenata</i> , 4 to 6 ins. XX, 2-yr...	.17	..
<i>Ilex crenata</i> , 6 to 9 ins. XX, 2-yr...	.25	..
<i>Ilex crenata bullata</i> , Convex Leaf Holly, 4 to 6 ins. X...	.18	.16
<i>Ilex crenata bullata</i> , Convex Leaf Holly, 6 to 8 ins. XX, 2-yr...	.25	..
<i>Ilex crenata bullata</i> , Convex Leaf Holly, 8 to 12 ins. XXX, 3-yr...	.45	..
<i>Ilex glabra</i> , 4 to 6 ins. X...	.18	.16
<i>Ilex glabra</i> , 8 to 10 ins. XX, 3-yr...	.30	..
<i>Ilex rotundifolia</i> , 3 to 5 ins. X, 1-yr...	.13	.12
<i>Ilex rotundifolia</i> , 4 to 6 ins. XX, 2-yr...	.18	.16
<i>Ilex rotundifolia</i> , 6 to 8 ins. XX, 2-yr...	.24	..
<i>Ilex rotundifolia</i> , 8 to 12 ins. XXX, 3-yr...	.60	..
<i>Juniper</i> , Andorra, 6 to 9 ins. X, 1-yr...	.17	.15
<i>Juniper</i> , Andorra, 6 to 9 ins. XX, 2-yr...	.24	.22
<i>Juniper</i> , Irish, 6 to 9 ins. X, 1-yr...	.17	.15
<i>Juniper</i> , Irish, 6 to 9 ins. XX, 2-yr...	.24	.22
<i>Juniperus communis</i> (various) <i>plumosa</i> , 4 to 6 ins. X, 1-yr...	.15	..
<i>Juniperus glauca</i> <i>hetzii</i> , 6 to 8 ins. X, 1-yr...	.17	.15
<i>Juniperus glauca</i> <i>hetzii</i> , 8 to 10 ins. X, 1-yr...	.22	.20
<i>Juniperus glauca</i> <i>hetzii</i> , 8 to 12 ins. XX, 2-yr...	.25	..
<i>Juniperus glauca</i> <i>hetzii</i> , 12 to 15 ins. XX, 2-yr...	.35	..
<i>Juniperus horizontalis</i> <i>glauca</i> , 6 to 8 ins. X, 1-yr...	.15	..
<i>Juniperus horizontalis</i> <i>glauca</i> , 8 to 12 ins. XX, 2-yr...	.20	.18
<i>Juniperus pfitzeriana</i> Hill's Golden, 5 to 8 ins. X...	.30	..
<i>Juniperus virginiana</i> , 8 to 12 ins. adig., 2-yr...	.07	.06
<i>Koelreuteria paniculata</i> , Golden Raintree, 4 to 8 ins. adig., 1-yr...	.10	..
<i>Larix europaea</i> , 6 to 12 ins. X, 2-yr...	.10	.08
<i>Leucothoe catesbeiae</i> , 4 to 6 ins. X, 1-yr...	.15	.13
<i>Picea excelsa</i> , 4 to 8 ins. X, 3-yr...	.12	..
<i>Pieris floribunda</i> , 10 to 12 ins. XX, 3-yr...	.35	..
<i>Pieris floribunda</i> , 10 to 15 ins. XX, 3-yr...	.50	..
<i>Pieris japonica</i> , Japanese Pieris, 4 to 6 ins. R.C...	.20	..
<i>Pieris japonica</i> , Japanese Pieris, 6 to 8 ins. XX, 3-yr...	.35	..
<i>Pieris japonica</i> , Japanese Pieris, 8 to 10 ins. XX, 3-yr...	.65	..
<i>Pieris mariana</i> , 8 to 10 ins. XX, 3-yr...	.65	..
<i>Pieris mariana</i> , 10 to 15 ins. XX, 3-yr...	.90	..
<i>Pinus montana mugo</i> , 2 to 6 ins. adig., 2-yr...	.05	.04
<i>Pyracantha laalandi</i> , 3 to 6 ins. R.C...	.10	..
<i>Quercus palustris</i> , Pin Oak, 6 to 12 ins. adig., 1-yr...	.12	.10
<i>Rhododendron</i> hybrid, 9 to 12 ins. XXX, 4-yr...	.85	.70
<i>Rhododendron</i> hybrid, 12 to 16 ins. XXX, 4-yr. (B&B add 25¢)...	1.50	..
<i>Taxus brownii</i> , 3 to 6 ins. X, 1-yr...	.14	.12
<i>Taxus brownii</i> , 6 to 8 ins. X, 1-yr...	.18	.16
<i>Taxus capitata</i> , 5 to 8 ins. X, 1-yr...	.18	.17
<i>Taxus capitata</i> , 6 to 8 ins. XX, 2-yr...	.25	..
<i>Taxus cuspidata</i> , 3 to 12 ins. XX, 3-yr...	.35	..
<i>Taxus cuspidata</i> , 3 to 6 ins. X, 1-yr...	.12	.11
<i>Taxus cuspidata</i> , 6 to 9 ins. X, 1-yr...	.15	.12
<i>Taxus cuspidata</i> , 8 to 10 ins. XX, 2-yr...	.20	.18
<i>Taxus cuspidata</i> , 10 to 15 ins. XX, 3-yr...	.35	..
<i>Taxus media</i> <i>hatfieldii</i> , 3 to 6 ins. X, 1-yr...	.14	.12
<i>Taxus media</i> <i>hickelii</i> , 3 to 6 ins. X, 1-yr...	.14	.12
<i>Taxus media</i> <i>hickelii</i> , 6 to 8 ins. X, 1-yr...	.18	.16
<i>Thuja occidentalis</i> , 4 to 8 ins. adig., 2-yr...	.08	.06
<i>Thuja occ. ellwangeriana</i> , 6 to 9 ins. XX, 2-yr...	.15	..
<i>Thuja occ. elegansissima</i> Geo. Peabody, 4 to 6 ins. X, 1-yr...	.14	.12
<i>Thuja occ. elegansissima</i> Geo. Peabody, 6 to 9 ins. X, 1-yr...	.18	.16
<i>Thuja occ. globosa</i> , 4 to 6 ins. X, 1-yr...	.12	.11
<i>Thuja occ. globosa</i> , 6 to 8 ins. XX, 2-yr...	.18	.16
<i>Thuja occ. globosa</i> , 8 to 10 ins. XX, 3-yr...	.25	..
<i>Thuja occ. Hill's Golden</i> , 4 to 6 ins. X, 1-yr...	.15	.13
<i>Thuja occ. plicata</i> , 6 to 9 ins. XX, 2-yr...	.18	..
<i>Thuja occ. pyramidalis</i> , 4 to 6 ins. X, 1-yr...	.15	.13
<i>Thuja orientalis</i> , Oriental Arborvitae, 4 to 8 ins. adig., 1-yr...	.05	.03
<i>Thuja orientalis</i> , Oriental Arborvitae, 6 to 9 ins. adig., 2-yr...	.08	.06
<i>Tsuga canadensis</i> , 12 to 15 ins. XXX, 6-yr., (B&B add 20¢)...	.65	..

PALLACK BROS. NURSERIES, Inc.

(On Highway 19, 31 mi. north of Pittsburgh, Pa.)

R.F.D. 1

Phone: Zelienople 476-J 21

HARMONY, PA.

the American Association of Nurserymen, gave an interesting address in which he described the work being done at the Washington office and at the second office at New York city. He stated that a concerted effort in our advertising and public relations is needed to meet the competition of other industries. The small amount of \$7.50 is the average spent by the American family for nursery stock, so that much more effective advertising is needed to bring the average in line with that spent on other commodities. "The A. A. N. keynote is 'Plant America.' Let us overwork it, if necessary, to make the American public plant-conscious," he said.

In continuing, he said that the A. A. N. is rapidly increasing its membership and that over 200 members are operating throughout the country, on a no-pay basis on behalf of the association. President Ilgenfritz feels that the keynote of success lies in the statement made by Gen. Omar Bradley, "Nothing is done without enthusiasm."

Dr. F. L. Gambrell, New York agricultural experiment station, Geneva, offered a few well chosen comments. He stated that he is hopeful of two chemicals now available for controlling beetle grubs and woody apple aphids, the latter probably being the worst pest to apple growers.

Dr. H. C. Young, Jr., assistant professor of plant pathology, New York agricultural experiment station, Geneva, commented on protective fungicides used in storing fruit trees to prevent mold. Also from the experiment station, Dr. Rodney reported on work being done to determine how much moisture sweet cherry trees can lose in storage without the trees' dying.

Ernest Schaufler, Cornell University, reported on 4-H extension service work. The immediate past president of A. A. N., Howard C. Taylor, East View, favored the group with a report on the census.

Walter W. Bennett, head of the science and horticulture department at Charlotte high school, Rochester, presented a short film illustrating work being done by students. It was interesting to note the complete facilities offered at this school for use in ornamental horticulture and floriculture courses, and the great benefits to the student choosing this field for his vocation.

OWNED by Robert Jenkins, Jenkins Nursery has entered the commercial landscape field at 805 East Rusk street, Marshall, Tex.



NORTHERN GROWN PLANTS

FRUIT TREES • SMALL FRUITS • SHRUBS • ROSES • ORNAMENTALS

APPLE — PEAR — PLUM

Write for Prices

PEACH

	Per 10	Per 100
11/16-in.	\$3.50	\$30.00
9/16-in. (2-yr.)	3.00	25.00
7/16-in.	2.50	20.00
	11/16-in.	9/16-in.
		7/16-in.
Elberta	X	X
Golden Jubilee	X	X
Hale Haven	X	X
Marquette	X	X
Polly Peach	X	X

RED RASPBERRIES

	Per 100	Per 1000
Transplants	\$7.00	\$60.00
1/4-in. cal. and up	6.50	55.00
No. 1, 3/16-in.	5.50	45.00
Indian Summer		
Transplants	8.00	70.00
1/4-in. cal. and up	7.50	65.00
No. 1, 3/16-in.	6.50	55.00
Latham		
Transplants	7.50	65.00
1/4-in. cal. and up	7.00	60.00
No. 1, 3/16-in.	6.00	50.00
Sunrise		
Transplants	7.00	65.00
1/4-in. cal. and up	6.50	55.00
No. 1, 3/16-in.	5.50	45.00

BLACK RASPBERRIES

	Per 100	Per 1000
Cumberland	\$8.00	\$70.00
Transplants	4.50	35.00
No. 1, tips	4.50	35.00
New Logan		
No. 1, tips	4.50	35.00
Morrison		
Transplants	9.00	80.00

BLACKBERRIES—BOYSENBERRIES

	Per 100	Per 1000
Alfred, No. 1, R.C.	\$5.00	\$40.00
Blower, No. 1, R.C.	5.00	40.00
Eldorado, No. 1, R.C.	5.00	40.00
Boysenberry, Thornless,		
No. 1, tips	5.50	45.00
Youngberry, No. 1, tips	5.50	45.00

GRAPES

	Per 10	Per 100	Per 1000
Concord	\$1.50	\$12.00	\$100.00
2-yr., No. 1	1.20	10.00	80.00

	2-yr., No. 1	14.00	120.00
Delaware	1.30	11.00	90.00

	1-yr., No. 1	8.00	70.00
Niagara	1.40	12.00	110.00

GOOSEBERRIES

	Carrie	Per 10	Per 100
2-yr., No. 1		\$2.50	\$20.00
1-yr., No. 1		2.00	15.00

	Houghton	Per 10	Per 100
2-yr., No. 1		2.50	20.00
1-yr., No. 1		2.00	15.00

CURRENTS

	Cascade	Per 100	Per 1000
2-yr., No. 1		\$20.00	\$180.00
1-yr., No. 1		18.00	140.00

	Red Lake	Per 100	Per 1000
3-yr., No. 1		18.00	160.00
2-yr., No. 1		16.00	140.00

FRUIT TREE STOCKS

APPLE SEEDLINGS, grown on new land from seeds of Northern varieties.

Per 100 Per 1000

No. 2, 2/16 to 3/16-in. \$2.00 \$18.00

FOREST TREE SEEDLINGS

Ash, Green Per 100 Per 1000

	2 to 3 ft.	Per 100	Per 1000
2 to 3 ft.	\$3.00	\$25.00	
18 to 24 ins.	2.20	18.00	
12 to 18 ins.	1.80	15.00	

Maple, Soft

2 to 3 ft. 4.50 40.00

Poplar, Norway

	4 to 5 ft.	Per 100	Per 1000
4 to 5 ft.	8.00	70.00	
3 to 4 ft.	6.00	50.00	
2 to 3 ft.	4.00	35.00	
18 to 24 ins.	3.00	25.00	
12 to 18 ins.	2.00	18.00	

Russian Olive

12 to 18 ins. 3.20 25.00

6 to 12 ins. 1.80 12.00

DECIDUOUS TREES

Almey Flowering Crab Per 10

5 to 6 ft. \$12.50 \$110.00

Poplar, Bolleana

6 to 8 ft. 9.50 85.00

6 to 8 ft. whips 6.50 60.00

5 to 6 ft. whips 4.50 40.00

Willow, Niobe Weeping

8 to 10 ft. 12.00 100.00

6 to 8 ft. 8.50 80.00

5 to 6 ft. 6.50 60.00

SHRUBS

Almond, Pink-flowering Per 10

2 to 3 ft. \$4.50 \$40.00

18 to 24 ins. 3.50 30.00

12 to 18 ins. 3.00 25.00

Almond, White-flowering

3 to 4 ft. 4.50 40.00

2 to 3 ft. 3.50 30.00

18 to 24 ins. 2.50 20.00

Amelanchier (Juneberry)

2 to 3 ft. (\$250.00 per 1000) 4.00 35.00

18 to 24 ins. 3.50 30.00

12 to 18 ins. 2.50 22.00

Cranberry, Highbush

2 to 3 ft. 4.50 40.00

18 to 24 ins. 2.80 25.00

12 to 18 ins. 2.50 22.00

Elder, Golden

4 to 5 ft. 4.50 35.00

3 to 4 ft. 4.00 30.00

2 to 3 ft. 3.00 25.00

Potentilla Fruticosa

18 to 24 ins. 4.00 35.00

12 to 18 ins. 2.80 25.00

Mock Orange, Coronarius

3 to 4 ft. 4.20 35.00

2 to 3 ft. 3.00 25.00

18 to 24 ins. 2.50 22.00

Prunus Cistena

2 to 3 ft. 6.00 55.00

18 to 24 ins. 4.50 40.00

12 to 18 ins. 4.00 30.00

Prunus Triloba

2 to 3 ft. 6.50 ...

18 to 24 ins. 5.50 45.00

12 to 18 ins. 4.50 35.00

Spiraea Macrothyrsa

2 to 3 ft. 3.00 25.00

18 to 24 ins. 2.50 20.00

Spiraea Vanhouttei

2 to 3 ft. 2.50 22.00

18 to 24 ins. 1.90 16.00

VINES

Bittersweet Per 10

2-yr., No. 1 \$2.50 \$20.00

2-yr., med. 1.75 15.00

Ivy, Engelmann

2-yr., No. 1 2.00 15.00

2-yr., med. 1.75 12.00

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Plant Notes Here and There

By C. W. Wood

It appears from a survey of the literature that most horticultural writers look upon the superb pink, *Dianthus superbus*, as Farrer did when he called it "the stalwart but lanky giant fringy pink, with wild pale ragged robin flowers of lilac to white." It has never appeared gawky to me, and I can think of few lovelier pinks to introduce into sunny or lightly shaded spots in the garden. As it does not object to close neighbors, *D. superbus* can be introduced into many border associations, where lacy flowers on stems to two feet (usually much less in our light soil here in northern Michigan) in height will keep coming throughout most of the summer, thereby adding color to spots which might otherwise be dull after the June flush is over. Even though it is not much more than biennial in duration, it will maintain itself in friendly gardens by means of self-sowing. It is one of the easier pinks, enduring drought and other adverse conditions with every good grace. Its variety *Loveliness*, which was introduced with much fanfare about a decade ago, is an improvement on the type in some ways, having increased size of flower in some cases and more fringes in most, and the Japanese variety *monticola* gives the rock gardener a small *superbus* for his use.

Chamaelirium.

The large lily family has given us an immense number of good garden plants and still remains a broad field for exploration and exploitation. Of the plants belonging in this category, our native *Chamaelirium luteum* may be mentioned as a bright prospect. Though it has been known since the time of Linnaeus and Willdenow, who named the genus, the name being a combination of Greek words meaning dwarf or ground lily, we are told that it is scarcely known in gardens. And it deserves a better fate. Its common name, fairy wand, indicates some of the grace of its 1 to 3-foot stems, which bear terminal racemes of small yellowish-white, 6-pointed stars from May until late June or early July, the exact time depending largely upon the latitude.

If you have had trouble growing the plant, you may be heartened to know that it needs a moderately acid soil, not so highly acid as that demanded by trailing arbutus and others of the heath family, but de-

cidedly one that is free from any trace of lime. Given that acidity and a fair amount of moisture (it grows naturally in low ground from Massachusetts to Nebraska and southward), the plant should cause one no great difficulty in growing it. It may be propagated from fall-sown seeds, when available, and from divisions. Incidentally, the plant is dioecious, i.e., with the two kinds of flowers on separate plants; so male and female plants must be present to secure viable seeds.

Cirsium Pitcheri.

A letter came recently from a Missouri reader who spends his summer vacation at a northern Michigan resort on the lake shore, where he has seen and admired *Cirsium pitcheri*, and who has unsuccessfully tried transplanting it to his nursery. His trouble, I think, is in his soil. *C. pitcheri* grows along the shore in pure sand, and, in the part of its range with which I am familiar, it is always in acid sand. Reasoning from these facts, we gave it a pure acid

sand in experiments here and found that it reacted favorably to that treatment. Let no one think, though, that it would be long-lived under any circumstances, because it is little more than monographic in nature. It would be better from an ornamental standpoint if the plant never bloomed, for the cream-colored flowers in typical thistle heads during July and August are of little account. Its fortune from the gardener's point of view lies in its ample rosette of white woolly leaves.

Allium Albopilosum.

A recent inquiry for the culture of *Allium albopilosum* makes me wonder from where it is coming. I have not had it since before the outbreak of the war and have not seen it listed in European catalogs;

CHOICE ITEMS

	Each
50 <i>Coloneaster Apiculata</i> .	per 100
15 to 18 ins.	\$1.50
500 <i>Azalea Mollis</i> , named,	
12 to 15 ins.	1.75
30 <i>Ginkgo</i> , 8 to 10 ft.	3.00
15 <i>Cornus Florida</i> Picard	
2½ to 3 ft.	2.50
15 <i>Cornus Florida</i> , 7 to 9 ft.	7.00
150 <i>Cornus Florida Rubra</i> ,	
16 to 24 ins.	1.00
150 <i>Franklinia A.</i> , 10 to 14 ins. T.	.50
500 <i>Taxus Capitata</i> , 2-yr. S.	.12
1000 <i>Ilex Convexa</i> , S.	\$50.00 per 1000
10 <i>Magnolia Lennsei</i> , 4 to 5 ft.	7.00
100 <i>Peony</i> , high-rated, B&B.	1.50
	Per 100
500 <i>Pieris Floribunda</i> , 4-yr., XX.	\$50.00
200 <i>Taxus Hirsutissima</i> , 4-yr., XX.	60.00
400 <i>Red Barberry</i> (Conn. only),	
3-yr. X	20.00

Other choice items. Cash with order.
50 at 100 rate; 500 at 1000 rate.

BRIMFIELD GARDENS NURSERY
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Fine for Retail Trade — Liners.

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NORTHERN-GROWN LINING-OUT STOCK

	Per 100	Per 1000
1 to 2 ft.	\$ 6.00	\$50.00
2 to 3 ft.	8.00	70.00
3 to 4 ft.	25.00	
4 to 6 ft.	40.00	
<i>Clethra alnifolia</i>		
6 to 18 ins.	6.00	50.00
18 to 24 ins.	8.00	70.00
<i>Ilex verticillata</i>		
1 to 2 ft.	6.00	50.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	6.00	50.00
<i>Viburnum cassiopeoides</i>		
1 to 2 ft.	6.00	50.00
<i>Viburnum dentatum</i>		
6 to 12 ins.	5.00	40.00
1 to 2 ft.	6.00	50.00

EVERGREENS

	Abies balsamea
4 to 8 ins.	4.00
8 to 12 ins.	8.00
<i>Thuja occidentalis</i>	
6 to 9 ins.	4.00
6 to 12 ins.	5.00
<i>Tsuga canadensis</i>	
4 to 8 ins.	4.00
8 to 12 ins.	5.00

The above stock is first-quality collected lining-out stock. Send for complete list of **Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.**

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QUALITY MERCHANDISE AT REASONABLE PRICES

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CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye, strong divisions and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Winter and Spring months.

Per	Per
100	1000

Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal, Wyoming.....	\$6.00	\$50.00
King Humbert, President, Copper Giant, Louis Cayeux, Yellow King Humbert.....	7.00	60.00

PEACH TREES

1-year Buds	Per	Per	Per
Each	10	100	1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00
7/8 to 1-in., & to 7 ft.....	.90	7.50	65.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00
			125.00

Belle of Georgia, Brackett, Carman, Crawford's Early, Crawford's Late, Early Rose, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, Hiley, J. H. Hale, Krummel's Late, O'Boy, Redhaven, Rochester, Skipper's Late Red, Summercrest, Triogem, Valiant, Vedette, White Hale.

APPLE TREES

2-year Buds	Per	Per	Per
Each	10	100	1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00
7/8 to 1-in., & to 7 ft.....	.90	7.50	65.00
11/16 to 7/8-in., 5 to 6 ft.....	.70	5.50	45.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00
7/16 to 9/16-in., 3 to 4 ft.....	.50	3.80	28.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.20	22.00
			200.00

Baldwin, Double Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Double Red Jonathan, Lodi, McIntosh, Double Red McIntosh, Red Spy, Red Rome, R. I. Greening, Solid Red Delicious, Double Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.

PEAR TREES

2-year Buds	Each	Per 10	Per 100
11/16-in. and up, 5 to 6 ft.....	\$1.05	\$9.00	\$75.00
9/16 to 11/16-in., 4 to 5 ft.....	.90	7.50	60.00
7/16 to 9/16-in., 3 to 4 ft.....	.75	6.00	45.00

Bartlett, Clapp Favorite, Duchess, Kieffer, Seckel.

SOUR CHERRY

Each	Per 10	Per 100
11/16-in. cal. and up.....	\$1.20	\$10.50
9/16 to 11/16-in. cal.....	1.10	9.50
7/16 to 9/16-in. cal.....	.95	8.00
5/16 to 7/16-in. cal.....	.85	7.00
		55.00

Montmorency, May Duke, Early Richmond, English Morello.

SWEET CHERRY

Each	Per 10	Per 100
11/16-in. cal. and up.....	\$1.40	\$12.50
9/16 to 11/16-in., 4 to 5 ft.....	1.15	10.00
7/16 to 9/16-in., 3 to 4 ft.....	1.00	8.50
5/16 to 7/16-in., 2 to 3 ft.....	.90	7.50
		65.00

Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.

ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

MARY WASHINGTON, PARADISE

Per	Per	Per	Per
25	100	250	1000
2-yr., No. 1.....	\$0.75	\$2.50	\$4.75
1-yr., No. 1.....	.60	2.00	3.50
			10.00

RHUBARB ROOTS

VICTORIA, MYATT'S LINNAEUS.

Per	Per	Per	Per
25	100	250	1000
2-in. and up, forcing grade.....	\$2.75	\$9.50	\$22.50
1 1/2 to 2-in. cal.....	2.00	6.50	15.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00
5/8 to 1-in. cal.....	1.25	3.50	7.50
1/2 to 5/8-in. cal.....	1.00	2.50	5.00
			16.00

BERRY PLANTS

No. 1 grade

Per	Per	Per	Per
10	25	100	1000
Thorny Boysenberry	\$1.00	\$2.00	\$6.00
Thornless Boysenberry	1.00	2.00	7.00
Lucretia Dewberry60	1.25	4.00
Cumberland Raspberry	1.00	2.00	6.00
Indian Summer Raspberry	1.00	2.00	7.00
Latham Raspberry	1.00	2.00	6.00
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			45.00

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1-yr., No. 1 grade.....	.20	1.50	9.00

FREDONIA (black).

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1-yr., No. 1 grade.....	.20	1.50	9.00	70.00

AGAWAM (red), BRIGHTON (red), CATAWBA (mahogany), MOORE'S DIAMOND (white), MOORE'S

EARLY (black), WORDEN (black):

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Each	Per 10	Per 100
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9/16 to 11/16-in., 4 to 5 ft.....	.85	7.00
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No. 1½		Sold out	
No. 2		Sold out	

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Ami Quinard. Dark velvety crimson, almost black.
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Brickcliff. Fine flower of silvery rose pink.
Caledonia. Long snowy-white buds; fragrant.
Christopher Stone. Velvety scarlet-crimson; fragrant; strong grower.
Condesa de Sastago. Petals coppery-pink inside, golden on outside.
E. G. Hill. Long bud, fully double; dazzling scarlet; vigorous.
Edith Nellie Perkins. Buff inside, coppery-pink outside.
Editor McFarland. Shapely buds and double; brilliant pink blooms.
Etoile de Hollande. Brilliant red; huge; free-flowering; fragrant.
Frau Karl Druschki. White American Beauty. Magnificent pure white.
Golden Charm. Clear yellow form of Talisman; exceptionally fine yellow.
Golden Dawn. Rich straw-yellow buds flushed old-rose; flowers sunflower-yellow.
Grenoble. Clear scarlet-red; tall; strong-growing.
Joanna Hill. Large flowers, golden-buff, yellow center.
Kaisserin Auguste Viktoria. Snowy-white, tinted yellow at center.
Konigin Luise. Pure white, double; strong grower.
Lady Hillingdon. Pointed buds of deep saffron-yellow; fragrant.
Luxembourg. Coppery-yellow with deep yellow stains at the base of petals.
Mrs. P. S. du Pont. Double, rich yellow; free-flowering.
Picture. Warm pink, salmon undertone.
Pink Dawn. Flowers perfectly formed, deep rose-pink, shaded orange.
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President Macia. Clear pink, slightly darker veining, long bud.
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Rouge Mallerin. Double blooms of lasting deep red.
Sœur Thérèse. Long pointed buds of chrome-yellow marked with carmine, opening into a rich daffodil-yellow.
Talisman. Bright apricot-gold or deep pink; very popular.

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Cl. American Beauty. Carmine; fine form; rich perfume.
Cl. Etoile de Hollande. Brilliant red; huge, free-flowering; fragrant.
Cl. Mrs. P. S. du Pont. Double; rich yellow.
Cl. Radiance. Brilliant rose-pink.
Cl. Talisman. Bright apricot, gold and deep pink.
Paul's Scarlet. Intense scarlet; vigorous and free-flowering.
Silver Moon. Silvery-white, yellow stamens; very large.

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No. 1½	5.00	45.00
No. 2	3.50	30.00

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so it must be getting around by the friendly route over back-yard fences. I advised the inquirer in New England not to try it unless he was prepared to give it special protection, because trials here indicated it was suited only to warmer parts of the country. Most of the so-called blue onions which come from eastern Asia are quite hardy this far north, but *A. albolilosum*, an inhabitant of Persia, I believe, lacks the stamina to carry it through our severe winters. It should be able to get along at the lower end of the Great lakes if planted in protected places, and south of the Ohio river it would probably be entirely hardy.

To me, a large part of the plant's charm and beauty is in its foliage—broad, strap-shaped leaves, as much as eighteen inches long and almost white with soft hairs (hence the specific name). And when the flower stems reach a foot, or perhaps two feet if the soil is rich and it has not suffered for moisture, and each scape crowns itself with a large ball of pale lilac flowers, it is truly a beautiful sight.

Where it is hardy, I can see it would be one of summer's finest offerings, a splendid plant of great landscape possibilities. I just referred to my notes and find that Boothman, writing in the National Horticultural magazine fifteen years ago, recommended that the plant be given the benefit of a dark background to bring out its beauty. A happy suggestion, I should say, considering its foliage color.

Alyssums for Wall Planting.

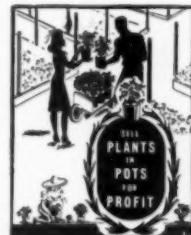
An eastern reader who maintains a large dry wall planting at a public institution writes that he finds that most of the alyssums recommended by nurserymen are too weedy. His conclusion coincides with that of other experienced planters. This is easy to understand, too, for about the only virtue in many of the species is that they are easy to grow. But who cares how amiable a plant may be if it selfsows all over the garden, only to envelop itself in a cloud of brassy yellow? There are a few really good alyssums, however, and we will examine some of these.

Perhaps the most popular is the double-flowered form of the ordinary baskets-of-gold, *A. saxatile*. Unlike the type, it never selfsows, and it has a pleasantly long blooming period. Even better for wall planting, in my estimation, is *A. idaeum*, which has the attractive silvered foliage of many alyssums. In addition, it possesses a gratifyingly long blooming season,



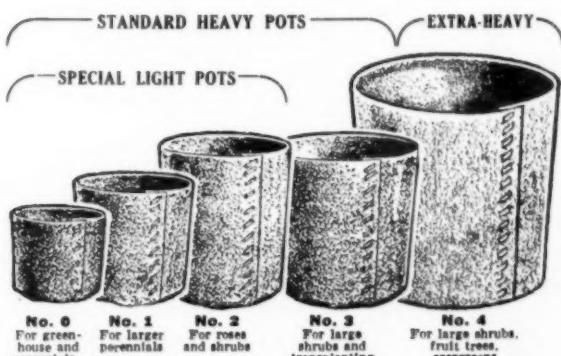
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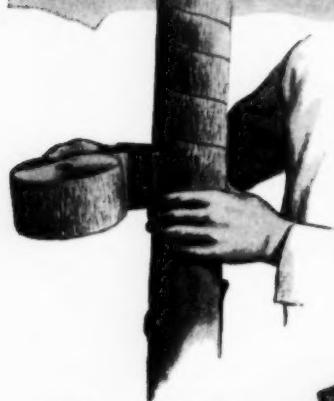
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commencing in May in the north, when it is a sheet of soft yellow, and continuing intermittently until fall if the soil is not allowed to be desert-dry for a long time. Its prostrate growth is much in its favor for wall planting.

And then there is the little shrub, *A. spinosum*, a little silvery bush growing to six inches or so in height and producing abundant small white cross flowers in June and July and later if the fates are kind. There is also a pink-flowered form of *spinosum*, known as variety *roseum*, whose color is so pale that the variety scarcely deserves its name. Also of the readily available kinds, the little 4-inch *A. montanum*, with a fairly pronounced fragrance and a bright yellow color, deserves mention.

But one has to go to the hard-to-find species to obtain the utmost in alyssums. Let us commence with the little silvered tuffet, *A. aizoides*, from high places in Armenia, which one sometimes finds in European lists. To me its greatest charm is found in its brilliant silver leaves, narrow and linear in shape. If one does not find *aizoides* at first but locates *A. lepidotum*, he should be satisfied, for he has a similar plant and one just as lovely in foliage. I should like to say much in praise of *A. wulfenianum* if I were sure one could find the true plant, for it is one of the loveliest of its kind to produce a silvery cascade in a dry wall. Unfortunately, one seldom obtains the true plant. In its stead one usually receives a form of *A. montanum*, good enough as far as that goes, but one might just as well start with *montanum*. If you have a plant somewhat similar in appearance to *A. idaeum*, but much larger, with pale yellow flowers, large in size and made up of broad petals notched at their ends, you have one of the better alyssums.

All are of easy culture, asking for little more than a light well drained soil in sun. The double form of *A. saxatile*, of course, must be grown from cuttings, preferably made of new growths following the flush of its flowering period; *A. spinosum* is also best grown from cuttings taken later in the summer and always with a heel. The other kinds mentioned in this note always produced bountiful crops of seeds (something *spinosum* never did in this garden) and are therefore easily grown from seeds.

Astragalus Caespitosus.

Most astragaluses that I have grown have something to recommend them to the gardener, even though it

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	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.00	\$65.00	<i>Juniperus virginiana elegantissima</i>	\$5.00	\$45.00
<i>Acer palmatum dissectum atropurpureum</i>	7.00	65.00	<i>Juniperus virginiana glauca</i>	5.00	45.00
<i>Cornus florida alba plena</i>	5.00	45.00	<i>Juniperus virginiana globosa</i>	5.00	45.00
<i>Cornus florida rubra</i>	5.00	45.00	<i>Juniperus virginiana kosteriana</i>	5.00	45.00
<i>Fagus sylvatica riversi</i>	7.00	65.00	<i>Juniperus virginiana schotti</i>	5.00	45.00
<i>Juniperus chinensis columnaris glauca</i>	5.00	45.00	<i>Juniperus virginiana pyramidiformis hilli</i>	5.00	45.00
<i>Juniperus chinensis columnaris viridis</i>	5.00	45.00	<i>Juniperus sabina Von Ehron</i>	5.00	45.00
<i>Juniperus chinensis keteleeri</i>	5.00	45.00	<i>Magnolia lennei</i>	7.00	65.00
<i>Juniperus chinensis neaboriensis</i>	5.00	45.00	<i>Magnolia soulangeana</i>	6.50	60.00
<i>Juniperus chinensis sargentii</i>	5.00	45.00	<i>Magnolia soulangeana nigra</i>	6.50	60.00
<i>Juniperus chinensis sargentii glauca</i>	5.00	45.00	<i>Magnolia stellata</i>	6.50	60.00
<i>Juniperus chinensis meyeri</i>	5.00	45.00	<i>Magnolia stellata, Water Lily</i>	6.50	60.00
<i>Juniperus virginiana burki</i>	5.00	45.00	<i>Tsuga canadensis pendula</i>	5.50	50.00
<i>Juniperus virginiana canaerti</i>	5.00	45.00	<i>Tsuga canadensis pendula, 1-yr. grafts</i>	7.00	65.00

All the above shipped from 2½-inch rose pots.

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HESS' NURSERIES

MOUNTAIN VIEW, N. J.

may be only the lovely foliage in some cases. *Astragalus caespitosus*, however, is a good plant from all angles — foliage, flowers, habit of growth and garden behavior. The plant comes from the dry hills and plains, from Canada south to Colorado and Utah (I notice that Rydberg says 4,000 to 6,000-foot altitude in Colorado), which tells us that it is hardy and that it needs a dry sunny situation. We find that if given such a situation in the garden, the plant will form a compact mat of silvery leaves, which is always a recommendation in my estimation. These are either entire or more likely divided into three to five leaflets, the entire plant being not more than two inches high. Sitting tight on that lovely background, the purplish flowers form a lovely picture from May until July. There is some confusion in the names for the plant, due in some part to the splitting up of the genus *astragalus* at the hands of botanists. Therefore, you will find it listed as *Homalobus caespitosus* if you and your collector are followers of Rydberg.

Although the culture of most *astragalus* species is easy enough after the plants are established, they are generally easy to grow from seeds. It is another matter to move the plants

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- 1300 *Bignonia Radicans*, 2-yr., No. 1
(Must be nursery-grown.)

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- 200 *Betula Alba Lacinata*, 6 to 8 ft.
250 *Betula Alba Lacinata*, 5 to 6 ft.
150 *Prunus Kwanzan*, 4 to 5 ft.
700 *Prunus Pissardi*, 4 to 5 ft.
(Could use *Thundercloud* or *Newport*)
110 *Prunus Subhirtella Pendula*, 2-yr. heads, 5 to 6 ft.

EVERGREENS

- 450 *Picea Pungens Glauca*, transplants, bare root, 12 to 15 ins.

FRUIT TREES

- 300 *Apple, Five-In-One*, 9/16-in.
(Must have started buds at least one inch in length.)

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- 2000 *Acer Platanoides*, 6 to 7 ft., whips, 11/16-in. cal.
2000 *Acer Plat. Schwedleri*, 6 to 7 ft., whips, 11/16-in. cal.

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Scotch Pine, extra-good, 3-yr., 6 to 8 ins.	3.50	30.00
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Larch, 2-yr., 5 to 8 ins.	2.50	20.00
Pitch Pine (Adirondack), 2-yr., 5 to 8 ins.	2.00	15.00
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after they have attained much size. The exact reason for that state of affairs is not apparent to me after many trials unless a theory that I have seen advanced is correct. According to that theory, the plants depend upon a parasitic or semiparasitic organism in their assimilation of food from the soil and air. These organisms are either lost or destroyed when transplanted in the usual way, with the result that death usually follows. In any event, they do not transplant with ease, and the plant grower will probably find it to his advantage to grow astragaluses in pots.

Antirrhinums.

Excepting the ordinary snapdragons of the flower garden which we use as annuals, antirrhinums offer the northern gardener little in the way of usable material. Southern growers, however, will be repaid for the effort of adding one or two of them to their lists. Just how much cold the different kinds can stand is not apparent from the literature, though one, at least, *A. asarina*, the creeping Italian snapdragon, is quite hardy and sometimes went through our northern Michigan winters under a good snow blanket. It has procumbent stems clothed in grayish leaves and cream-colored flowers, often flushed pink, from spring until frosts, on plants seldom over two or three inches tall. It is an excellent rock garden plant for a warm sheltered spot that is well drained. The only others that I have ever kept over winter, so far as memory serves me now, were the two Spaniards, *A. glutinosum* and *A. sempervirens*, though neither is to be trusted in the open this far north and perhaps not north of latitude 40 degrees.

The first, *A. glutinosum*, is a 6-inch plant with pale yellow snapdragons throughout the summer. *A. sempervirens* has rather procumbent stems and whitish flowers for three months in summer. Neither excited me to the point of making much of an effort to keep them from the ravages of winter, though both should interest garden makers in more temperate parts of the country.

The foregoing concludes my experience with snapdragons, but I should like to add for the benefit of southern growers a few notes about an African species, *A. tortusum*, which came to me (the notes, not seeds or plants) from a friend in England a few years ago. It is a splendid little shrub, according to him, growing to eighteen inches in height, clothed in narrow leaves, with pale pink snapdragons produced over the usual long snapdragon period. Al-

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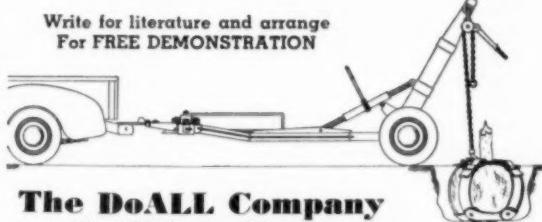
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together, he said, it is a decided acquisition that will become popular in warm countries when it becomes known. The note on snapdragons will wind up with A. molle, from the warm slopes of southern Spain, which I had once and lost after one flowering season. That no doubt resulted from lack of hardiness, and I should not expect it to stand the winters north of Kentucky. But south of there it should be a great joy to wall gardeners. In a southward-facing wall, its hoary-white little leaves on dangling stems would delight the gardener throughout the open year, and its large white snapdragons, with yellowish palate and upper lip streaked red, would make summer more enjoyable. All come readily from seeds, or they may be grown from cuttings.

ELECTED as vice-president for nurserymen of the Allied Florists' Club of Jacksonville, Fla., is Charles R. Keller, operator of the Keller Florist, Jacksonville.

ALTHOUGH propagation of evergreens has been carried on for several years, the Jack Edgell Nursery, Route 4, Box 320, Elm Grove station, Wheeling, W. Va., began sale of stock only recently.



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New Jersey Meeting at Trenton

By L. C. Schubert

The second session of the New Jersey Association of Nurserymen's annual winter meeting, held at Hotel Hildebrecht, Trenton, on January 25 in conjunction with Farmers' week, drew a good attendance. The first session was held January 5 at New York, during the eastern regional meeting, which was reported in the preceding issue.

Much to the members' amusement, "the Symposium," which was listed first on the program, was explained away as the bull session preceding the meeting, by President Fred Noble, Lovett's Nursery, Little Silver, who was reelected for the following year. Also reelected were the first vice-president, Gerard Grootendorst, Oakland; second vice-president, William Wells, Jr., Cumberland Nurseries, Millville, and treasurer, August Kindsgrab, St. Cloud Nurseries, West Orange. Elected to serve on the executive committee were Samuel E. Blair, Blair's Nurseries, Inc., Nutley; Walter Ritchie, Walter M. Ritchie, Inc., Rahway, and William Flemer, Jr., F & F Nurseries, Springfield.

The perennial problem of the state nursery's overstepping its privileges was one of the matters brought before the group by Gerard Grootendorst, chairman of the vigilance committee. He read a letter from George Jennings, Ralston, stating that, in spite of promises by Secretary Wilbur of the department of conservation that annual reports would be made on the true cost of administering the state nursery, these reports are not now being made and apparently nursery stock is being sold in competition with private nurseries. The state requires that each purchaser fill out a form stating that plants purchased from the state will not be used for ornamental purposes. However, apparently this is not being enforced. After a discussion, it was finally decided that nurserymen certainly have no quarrel against reforestation and that the individual members should contact their legislative representatives in an effort to have the abuse stopped.

Nurserymen have felt for some time that there was no adequate course for landscape nurserymen at the Rutgers University, and a committee headed by William Howe had previously been appointed by the president to discuss the possibilities of working out a course for this pur-

pose. Dr. C. H. Connors of the floriculture department, who had attended a meeting of the committee with Dr. W. H. Martin, dean and director of the college of agriculture and ex-



Fred J. Noble.

periment station, was asked to report on the results. Dr. Connors first explained the setup at the college, pointing out that any new course must be

ACER PLATANOIDES • NORWAY MAPLES

	Per 100
6 to 8 ft.	\$ 60.00
6 to 8 ft., 1/2 to 1-in. cal.	75.00
8 to 10 ft., 1/2 to 1 1/2-in. cal.	100.00
Specimen trees	125.00
9 to 11 ft., 1 1/2 to 1 1/2-in. cal.	200.00
Specimen trees	250.00
Each	
10 to 12 ft., 1 1/2 to 1 1/2-in. cal.	\$ 3.00
Specimen trees	4.00
11 to 13 ft., 1 1/2 to 2-in. cal.	5.00
Specimen trees	6.00

All these trees are well branched with fine fibrous roots and have been twice transplanted. Additional charge of 15 per cent will be added for bailing. No charge for loading trucks here at the nursery.

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PINK DOGWOOD

Extra-strong, 1-yr. grafts.

	Per 100
12 to 18 ins., B. R.	\$ 75.00
18 to 24 ins., B. R.	100.00
24 ins. and up, selected	125.00

KOSTER NURSERY

BRIDGETON, N. J.

built around present basic courses. It is recognized that the basic idea of a college training is to prepare men for good citizenship and that a college cannot be considered in the same light as a vocational school.

A course has been prepared, however, based on plant science. It would include elementary nursery management, entomology and pathology, soils, plant materials, both woody and herbaceous, and, on the art side, drafting, surveying, history of landscape art, principles of design as applied to fitting land for human use and enjoyment and courses in freehand sketching and pictorial rendition. There would also be certain electives with which the student could round out his course. The course would give 155 credit hours, more than are usual in a course of this kind. During the discussion, it was brought out that other requirements of the course would be English classes, which include public speaking, and two semesters of general economics. The association went on record as approving the course as

PIERIS JAPONICA

As far as we know, no nursery has ever had too much Pieris japonica. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of a planting.

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4 to 7 ins., T.15

Send for list of other choice plants.

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Per 100

Red-flowering Dogwood	
6 to 10 ins., grafts.	\$ 55.00
Canadian Hemlock	
5 to 12 ins., trans.	15.00
Magnolia Soulangiana (pink)	
8 to 15 ins. (own-root)	70.00

Send for new spring list.

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"LOOK TO LEGHORN'S FOR YOUR LINERS"—

We still have a few liners left in the 2-yr., T, sizes and up. Write for prices on these. We also have some nice upright yews in sizes 2 to 2½ ft., 2½ to 3 ft. and 3 to 3½ ft. Send for our complete list covering both these items.

LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

outlined, and a vote of thanks was tendered to Dr. Connors for his efforts in developing it.

Roland deWilde announced that during a conversation with Wallace A. Mitcheltree, of the soils department, he was advised that there was an excellent possibility of holding a short course in soil management for nurserymen in the Camden area, provided sixty to seventy individuals were sufficiently interested in attending such a course.

At this time the meeting of the New Jersey Association of Nurserymen was temporarily adjourned and the New Jersey chapter of the American Association of Nurserymen held a short meeting to elect delegates to the national convention. Fred Noble was elected to represent the New Jersey chapter in the eastern region. The following delegates were also elected: One year, Mr. Noble and Gerard Grootendorst; two years, William Wells; alternates, one year, George Runge and William Flemer; two years, Walter Ritchie. The entire group then adjourned for an excellent luncheon.

After reconvening, the president read a telegram which had just been received, extending greetings from the Pennsylvania Nurserymen's Association meeting at Philadelphia and



Musser's 2-yr. Canadian Hemlock, 4 to 8 ins. Average 2-yr. Canadian Hemlock

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3 to 5 feet

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Dobbies' Imp. l.s. hybrids, mixed	1/8 oz.	\$0.35
Long-spurred hybrids, Blue Shades,		
Copper Queen, Orange and Scarlet,		
Pink Shades, Rose Shades, White or		
Yellow Shades each 1/8 oz. .45		
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mixed 1/8 oz. .40		

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perennis, dble., Longfellow	1/8 oz.	.25
or Snowball 1/8 oz.		
perennials Monstrous, dble. crimson,		
rose, white or mixed 1/8 oz.		
perennials Monstrous tuberosa		
Etna, red 1/8 oz. .30		
perennials Monst. Monterosa, rose 1/8 oz. .30		
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Grenadier Black King, Cardinal-red,		
Golden Sun, Rose Queen, Snow		
White, Triumph Pink or White		
Gold each 1/8 oz. .40		

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Belladonna, light blue 1/8 oz.		.40
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Bellamossom, dark blue 1/8 oz. .45		
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Pacific Giant Hybrids

Black Knight, dark blue 1/8 oz.		.45
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Galahad, glistening white 1/8 oz.		.35
Guinevere, light pinkish-lavender 1/8 oz.		.35
King Arthur, dark violet 1/8 oz.		.35
Lancelot, clear lilac, self 1/8 oz.		.35
Percival, white 1/8 oz.		.35
Summer Skies, clear, light blue 1/8 oz.		.35
Pure white 1/8 oz. .20		
Mixed 1/8 oz. .30		

HIBISCUS

Giant-flowering, mixed 1/2 oz.		.50
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Pycnostachya, purple, rubbed seeds 1/8 oz.		.35
spicata, blue, rubbed seeds 1/8 oz. .30		

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polypillus atroroviaceus 1/8 oz.		.30
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polypillus, white 1/8 oz. .25		
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Alpenglow, cardinal-red 1/2 oz.		1.50
Berna, dark, velvety, violet-blue 1/2 oz.		1.50
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Lake of Thun, marine-blue 1/2 oz. .50		
Luna, sulphur-yellow, no blotches 1/2 oz. .50		
Orange, apricot, dp. orange cen. 1/2 oz. .70		
Rhinegold, canary-yellow, brown blotches 1/2 oz. 1.50		
Silverbride, silver-white, pink blotches 1/2 oz. 1.50		
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PYRETHRUM

roseum, double, mixed 1/8 oz.		.45
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Kelvedon Star 1/4 oz.		.35
My Joy, giant, orange-yellow 1/4 oz. .35		

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dumosa 1/4 oz.		.25
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SWEET WILLIAM		
double, mixed 1/4 oz. .25		
single, Auricula-eyed (Hollow Glory) 1/4 oz. .25		
single, coppery-red 1/4 oz. .25		
single, Diadem, crimson, white eye 1/4 oz. .25		
single, Dunnettii, deep crimson 1/4 oz. .25		
single, Newport Pink 1/4 oz. .30		
single, nigricans 1/4 oz. .25		
single, Scarlet Beauty 1/4 oz. .25		
single, Sutton's Fairy 1/4 oz. .30		
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HERBST BROTHERS

92 Warren St., New York 7, N. Y.

inviting the members to attend that meeting the following day and signed by President William M. Long. President Noble then made a short address outlining the activities of the association during the past year and thanked the officers, the executive committee and members for their fine cooperation.

Roland deWilde, deWilde Rhodo-Lake Nurseries, Bridgeton, showed photochrome slides illustrating work done at the Perkins-deWilde Nurseries, Inc., Shiloh. He prefaced the showing of the slides with a short talk on the value of contour planting on the nursery and the necessity of a soil improvement program. Among the facts brought out were the following: The growing of nursery stock, and specifically B&B stock, is hard on soil resources; the usual system of clean cultivation promotes damage from wind and water erosion, and it is often impossible to rotate with soil-building crops as frequently as desirable. He emphasized that, in spite of these disadvantages, it is our duty, in fact our moral obligation, that in the process of making our living from the soil, we do not leave it in a worse condition than we found it.

The slides which he then had thrown on the screen, showing detailed before-and-after shots of the nursery, made it quite apparent, both from the lack of erosion evident in some of the earlier shots and the fine appearance of the plants, that this method was all that he claimed. Klaas deWilde, manager of the Perkins-deWilde Nurseries, Inc., who has worked with the development of this contour system since its inception, was called on to explain some of the technical details.

The next speaker, H. P. Quadland, A. A. N. public relations counsel, New York, brought greetings from Richard White, A. A. N. executive secretary, who usually attends the New Jersey meeting, but was unable to do so this time. Mr. Quadland informed the association that he attended many meetings in various parts of the country, but as far as the nurserymen were concerned, he found that business was good and prospects for the near future were



NEW DARK VELVET RED
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15 to 18 ins., B&B \$3.50
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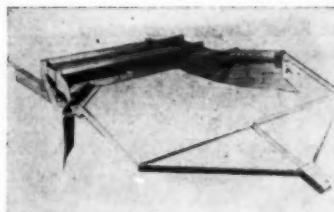
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1. Planting costs reduced to \$1.25 per 1000.
2. Operates from tractor drawbar.
3. Handles all types of lining-out stock.
4. Packing wheels equipped with pneumatic tires.

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2. Raises beds any desired height from 1 to 6 inches to get proper drainage and aeration.
3. Can be purchased in any widths of 2, 3 or 4 ft.
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excellent. He stated that the "Plant America" program is not a political or commercial movement, but a movement to conserve the land and make it greener and more productive, to give America greater satisfaction in living, to conserve the soil and the physical and mental health of America, preserve wildlife and encourage the planting of communities, the landscaping of farmsteads and the increase of city parks. The idea is to get every organization which is in any way interested in the above projects behind this program. He stated that it is not a bright promotional idea, but that, inasmuch as any planting which needs to be done will fall to nurserymen, they should derive much benefit from it.

Frank Soraci, acting chief nursery inspector, spoke briefly on the subject of oak wilt, which is causing much concern to state officials, pathologists and everyone else who has interest in oak trees. He recommended that they read in the November 15 issue of the American Nurseryman Noel B. Wyson's article, "Rapid Spread of Oak Wilt in Midwest," which is a resume of what is known at present concerning the disease. He further stated that it is similar to the Dutch elm disease in its attack on all oaks.

Dr. Clyde Hamilton, entomologist

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- Quercus Borealis*, 2 to 6-in. caliper
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Rhododendron maximum	Rhododendron catawbiense	Kalmia latifolia	Azalea calendulacea and nudiflora
\$2.25	\$2.75	\$1.00	\$1.75
2.50	3.00	1.25	2.00
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4.00	5.15	3.50	3.15

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Wholesale growers of dependable Fruit Trees, Ornamental Trees and Shrubs.

FRUIT TREES

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APPLE TREES, 2-year

11/16-in., 9/16-in., 7/16-in., 5/16-in.

Baldwin, Cortland, Dbl. Red Delicious, Duchess, Early McIntosh, Macoun, McIntosh Red, Northern Spy, Red Astrachan, R. I. Greening, Stayman Winesap, Wealthy, Yellow Delicious, Yellow Transparent.

STD. PEAR TREES, 2-year or 1-year

11/16-in., 9/16-in., 7/16-in., 5/16-in.

Bartlett, B. Bosc, B. d'Anjou, Clapp Favorite, Gorham, Kieffer, Seckel, Sheldon.

PLUM TREES, 2-year and/or 1-year

11/16-in., 9/16-in., 7/16-in., 5/16-in.

Abundance, Burbank, Bradshaw, Fellenberg, Green Gage, Italian Prune, Lombard, Reine Claude, Shrop. Damson, Stanley Prune, Yellow Egg.

CHERRY TREES, 2-year

9/16-in., 7/16-in., 5/16-in., under 5/16-in.

Bing, Black Tartarian, Early Richmond, English Morello, Governor Wood, Lambert, Montmorency, Napoleon, Schmidt, Windsor, Yellow Spanish.

CHERRY, 1-year

9/16-in. and 7/16-in.

Montmorency

Can also furnish 1-year SWEET CHERRY, varieties as listed in 2-year-old stock.
5 to 6 ft., 4 to 5 ft., 3 to 4 ft.

PEACH TREES, 1-year

9/16-in. and up, 7/16-in., 5/16-in.

Elberta, Golden Jubilee, Halehaven, J. H. Hale, Southhaven, Valiant, Vedette, Rochester, Red Haven.

THUJA OCCIDENTALIS COMPACTA ERECTA (NEW)

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Barberry, sdgs.	Hicks' Yew
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SELLING OUT. Specimens 20 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Reyer High Point, N. C.

at Rutgers University, spoke a few words regarding his work with mist blowers, which is a new method of spraying. He is making motion pictures of his work to show the nurserymen at a later date. A matter of some interest was the fact that the cost of this type of spraying is only one-fifth the cost of the hydraulic method. Dr. Spencer Davis, pathologist at Rutgers University, also spoke on the seriousness of oak wilt, saying that at present there is little known concerning it.

During a period of general discussion, it was brought out by George Runge that while the New Jersey association lists as members most of the prominent nurserymen of the state, an effort should be made to get many more of the 600 certified nurserymen into the organization. The possibilities of a short course for nurserymen at the experimental station during the winter of 1950-51 were discussed, but apparently there is not much interest in it. A sound film on salesmanship, obtained through the courtesy of LaBars' Rhododendron Nurseries, Stroudsburg, Pa., was enjoyed by all.

MASSACHUSETTS AWARDS.

The Kelsey-Highlands Nursery, East Boxford, Mass., was recently awarded the Albert C. Burrage gold vase from the Massachusetts Horticultural Society for the most outstanding exhibit at any of the society's flower shows in the past year. The award-winning exhibit was a woodland scene in the 1949 New England spring flower show.

Highest of the society's honors, the George Robert White medal, went to Dr. Wilson Popenoe, director of Escuela Agricola Pan Americana, Honduras, who has developed a practical school of tropical horticulture and agriculture under the sponsorship of the United Fruit Co.

Montague Free, formerly horticulturist at the Brooklyn Botanic Garden and presently an editor of Home Garden magazine, was awarded the Thomas Roland medal for skill in horticulture.

The Jackson Dawson medal for skill in hybridization and propagation of hardy, woody plants went to Prof. Richard Wellington and Prof. George Slate, New York agricultural experiment station.

For his remarkable editorials in the Boston Herald pertaining to agriculture and horticulture, Haydn S. Pearson was awarded an inscribed scroll.

Another Massachusetts Horticul-

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	Per 100	Per 1000
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Concord, 1-1	8.00	60.00
Niagara, 2-1	11.00	90.00
Niagara, 1-1	9.00	70.00
Catawba, 2-1	11.00	90.00
Catawba, 1-1	9.00	70.00
Fredonia, 2-1	11.00	90.00
Fredonia, 1-1	9.00	70.00
Delaware, 2-1	11.00	120.00
Delaware, 1-1	11.00	90.00
Van Buren, 2-1	26.00	—
Van Buren, 1-1	16.00	—
Sheridan, 1-1	14.00	—

BLACKBERRIES

	6.50	55.00
Eldorado, transplants	5.00	40.00
Eldorado, No. 1, r.c.	6.50	55.00
Alfred, transplants	5.00	40.00
Alfred, No. 1, r.c.	5.00	40.00
Early Harvest, No. 1, r.c.	5.00	40.00

BOYSENBERRIES and DEWBERRIES

	5.00	40.00
Boysenberry (Common), No. 1 tips	5.00	40.00
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	5.50	40.00
Lucretia Dewberry, No. 1 tips	5.50	40.00

CURRENTS

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Wilder, 3-yr. heavy	12.00	100.00
Wilder, 2-yr. No. 1	7.00	60.00
Wilder, 1-yr. No. 1	16.00	—
Red Lake, 2-yr. No. 1	12.00	—
Red Lake, 1-yr. No. 1	25.00	—

GOOSEBERRIES

	25.00	—
Downing, 2-yr. No. 1	25.00	—
Houghton, 2-yr. No. 1	25.00	—

	25.00	—
Champion, 2-yr. No. 1	25.00	—

BLUEBERRIES

	Prices of Raneoces, Rabel, Jersey	Each	Per 10	Per 100	Per 1000
2-yr., 9 to 12 ins., bearing age...	\$0.40	\$3.50	\$32.50	\$300.00	
3-yr., 12 to 18 ins., bearing age...	.55	5.00	47.50	450.00	
4-yr., 18 to 24 ins., bearing age...	.75	7.00	67.50	650.00	

HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American Arborvitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdls...	\$0.80	\$5.00
3 to 6 ins., sdls...	1.50	10.00
6 to 9 ins., sdls...	2.50	15.00
9 to 12 ins...	6.00	40.00
12 to 18 ins...	8.00	65.00

All first-quality stock, well rooted and packed in sphagnum moss.

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Cash, please.

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Northern-grown

CANADIAN HEMLOCK AMERICAN ARBORVITAE

BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., sdls...	\$0.80	\$5.00
3 to 6 ins., sdls...	1.50	10.00
* 6 to 9 ins., sdls...	2.50	15.00
* 9 to 12 ins., sdls...	6.00	40.00
* 12 to 18 ins., sdls...	8.00	65.00
* 18 to 24 ins., sdls...	20.00	—

*Limited quantity of Arborvitae.

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

WILLIAM CROSBY HORSFORD
Charlotte, Vermont

FOR 52 YEARS

Our business has been growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

BOBBINK & ATKINS
E. RUTHERFORD, N. J.

tural Society award, the gold medal, went to Dr. Kenneth Post, Cornell University, for his book, "Florist Crop Production and Marketing," published in 1949 and recognized as a significant contribution in the field of floriculture, plant production and marketing.

EXPANSION of the former firm of Merrimac Evergreen Nursery, Saginaw, Mich., during the past several years has resulted in the recent founding of a new \$50,000 corporation, McDonald's Nursery, Inc., by Dr. and Mrs. Francis J. McDonald and their son, Joseph C. McDonald.

WINTERING at West Palm Beach, Fla., with their 18-year-old granddaughter, Jerry Clark, Painesville, O., the Arthur Champions of Champion Nurseries, Perry, O., recently went to Miami to visit Mr. and Mrs. Clarence Aldrich, Aldrich's Nurseries, Farmington, Mich. The two men will celebrate their seventieth birthdays together in March. Also highlighting their Florida trip was a visit to George Hebdon Corson, the nut tree specialist from Islington, Ont., Canada, who, at the age of 94, still works part of his sixteen acres south of Miami.

Coming Events

MEETING CALENDAR.

February 15 to 19, Midwestern Chapter of National Shade Tree Conference, Hotel La Salle, Chicago.

February 21 to 23, Pennsylvania Nurserymen's Conference, State College.

February 27 to March 10, Landscape short course, Virginia Polytechnic Institute, Blacksburg.

March 1, Rhode Island Nurserymen's Association, Johnson's Hummocks Grill, Newport.

March 2 and 3, Canadian Association of Nurserymen, Royal York hotel, Toronto, Ont.

March 7, Western Pennsylvania Nurserymen's Association, Webster Hall hotel, Pittsburgh.

PENNSYLVANIA SCHEDULE.

Registration for the Pennsylvania Nurserymen's conference at Pennsylvania State College, State College, Pa. February 21 to 23, will take place Tuesday morning at the Horticulture building, room 207, for a fee of \$2.50.

The program will open that afternoon with a talk on "Hybrid Rhododendrons," presented by Roland deWilde, Jr., deWilde's Rhodo-Lake Nurseries, Shiloh, N. J. Next on the program will be Albert F. W. Vick, Vick's Wildgardens, Narberth, whose topic is "Creating Naturalistic Gardens," and R. P. Meahl, professor of ornamental horticulture, Pennsylvania State College, who will speak on "Selected Plants for Ornamental Plantings." An open forum will conclude the afternoon's session.

"Practical Plant Propagation," by Nick Geers, Richard Schwoebel Nursery, Ardmore, will be the first talk on Wednesday's program. Also scheduled for the morning session are Walter P. Morrow, Morrow Tree Co., Sewickley, who will speak on "Pruning Shade Trees," and Owen B. Schmidt, F. D. Moore & Sons, Narberth, whose topic will be "Costs of Planting."

That afternoon the group will hear talks on "The Nursery Office," by Harold G. Seyler, Farr Nursery Co., Weiser Park; "Establishing a Nursery and Landscape Business," by William Phillips, Phillips Nurseries, Wilmington, Del., and "Relation of the Landscape Art to the College—Life and Plant Industry," by Paul W. Pierson, assistant supervisor of landscape construction and maintenance at the Pennsylvania State College.

The last day will feature discussions on "Knowing and Controlling Insect Pests," by Stanley G. Gesell, assistant professor of entomology ex-

tension, Pennsylvania State College, and "Quick Soil Testing," by John G. Seeley, professor of floriculture at the college. Robert H. Beatty, American Chemical Paint Co., Ambler, will conclude the conference with his talk, "2,4-D in Plain English."

PLAN NURSERY SCHOOL IN LAKE COUNTY, OHIO.

The annual one-day school for nurserymen in Lake county, Ohio, and surrounding area, to be held February 23, at the Lake County Courthouse, Painesville, will be climaxized by a banquet featuring humorist Harry Coopland as guest speaker.

The program will open Thursday morning at 9:30 with a talk on "Fertilizers, Minor Elements, Soil Deficiencies," by Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus. Following will be a discussion led by B. C. Smith, department of horticulture at the university, on "Propagation of Woody Ornamentals."

James S. Wells, manager of Koster

Nursery, Bridgeton, N. J., will start the afternoon session with a talk on "Nursery Management and Cost Accounting in the Nursery," which will be followed by a discussion on "Nursery Insects Studied During 1949," by R. B. Neiswander, Ohio agricultural experiment station, Wooster.

A panel discussion, "Growers' Experience on Use of New Spray Materials," will be led by the chairman, Robert Kallay, Donewell Nurseries, Painesville. Also on the panel are Barrett Cole, the Cole Nursery Co., Painesville; Michael Sebian, Michael P. Sebian Nursery, Painesville, and Russell Champion, Champion Nurseries, Perry.

Guest speaker at the annual banquet at 6:30 p. m. at the Rose Room, Mentor, will be Harry Coopland, famous humorist and after-dinner speaker. A showing of the color film, "Dance of the Plants," which is time-lapse photography by John Nash Ott, of Winnetka, Ill., will follow on the program, which will conclude with dancing to music of a local orchestra.

The program committee of the Lake County Nurserymen's Association that assisted F. G. Haskins, county agent, with working out the day's program consisted of president of the association, Robert Kallay;

An Unusual Opportunity!

WANTED NURSERY SUPERINTENDENT

for a large, long-established midwestern nursery growing a general line of stock exclusively for wholesale. Large acreage. Most modern facilities, equipment and machinery. Very strong financial position. Applicant should be 35 to 50 years old, thoroughly trained, well experienced and capable of effectively organizing work and efficiently directing operations of more than 100 men. Please give complete information in first letter, including age, training, experience, family, present employer, salary expected, etc.

Address Box 688, care of American Nurseryman

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

ROSEBUSHES

Licensed Grower,
All-America
Introductions.

Refrigeration.
AVOID HEELYARD HAVOC.

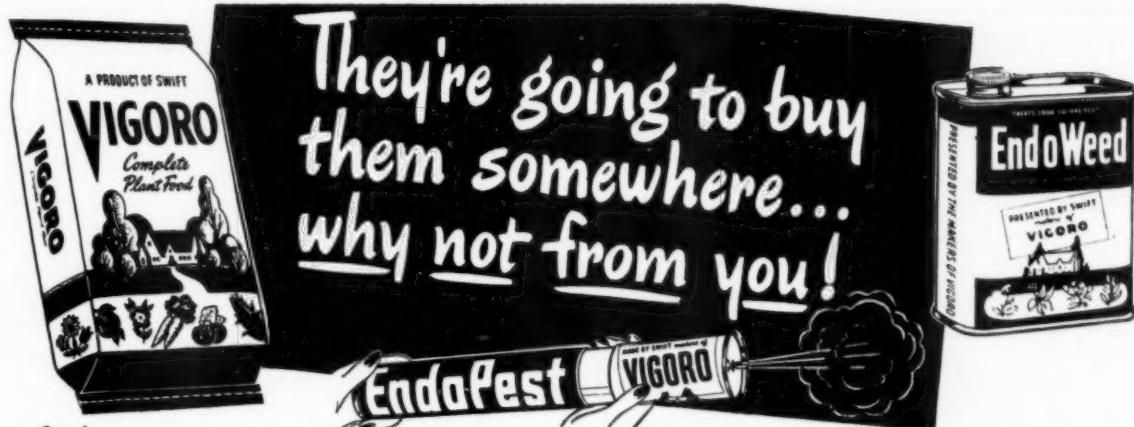
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TYLER, TEXAS

PECAN TREES

WALNUT, FIG
PERSIMMON

Wholesale Catalog.
GET YOURS FIELD-FRESH AND FREEZE-FREE.



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End-o-Pest and End-o-Weed for more \$\$\$\$\$!

It's not too late to plan your 1950 garden department business. Place your order NOW for Vigoro, "the best known name in the gardening field." And be sure to include an order for End-o-Pest and End-o-

*VIGORO is the trade-mark for SWIFT & COMPANY'S complete, balanced plant food.

PRODUCTS PRESENTED BY SWIFT & COMPANY

Plant Food Division

U. S. Yards

Chicago 9, Ill.

Charles Kohankie, Henry Kohankie & Son, Painesville; Russell Champion, and the secretary-treasurer, Miss Margaret Sessler.

Association members who are promoting the sale of tickets for the evening's entertainment are Steve Allen, Jr., Allen Nurseries & Seed House, Geneva; Maurice Champion, Champion Nurseries, Perry; Michael Sebian; Charles Kohankie; Gerard Klyn, Jr., Mentor; Zophar Warner, Warner Nursery, Willoughby, and George Gens, Elyria.

M. Sessler, Sec'y.

RHODE ISLAND PROGRAM.

The Rhode Island Nurserymen's Association's annual meeting, which was tentatively set for February 15, will be held instead March 1 at Johnson's Hummocks grill, Providence, Arthur S. Lewis, publicity chairman, has announced.

President Rudolf Wallisch, Sunset Nursery, Johnston, will call the general business meeting to order at 10 a. m. After luncheon, which will be served at 12:30 p. m., the principal speaker, Prof. Harrison Myrick, Bryant College, will talk on "Competitive Selling in the Nursery Field." Dr. Theodore E. Keer, research entomologist, will address the group on

Weed—the 2 Vigoro companion gardening aids. Display them prominently. Merchandise and advertise them to your customers. You'll make 3 sales . . . 3 profits and gain customer good will, too.

AMERICA'S 3 GREAT GARDENING AIDS

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End-o-Pest
End-o-Weed

FIELD-GROWN EVERGREEN LINERS

2-year plants, well rooted and furnished with plenty of tops.

IRISH AND ASHFORD JUNIPER LINERS

	Each per 100	Each per 1000
8 to 12 ins.	12½c	10c
12 to 15 ins.	15c	12½c
15 to 18 ins.	20c	17½c

300 or more plants at 1000 rate.

DOUBLE-FLOWERING PEACHES

Red, White, Pink

Well rooted and well branched.

	Each per 10	Each per 1000
18 to 24 ins.	17½c	15c
2 to 3 ft.	20c	17½c
3 to 4 ft.	25c	22½c

NANDINA LINERS

Once transplanted, stocky plants. Each 2 to 4 ins. 5c

4 to 6 ins. 7½c
Stock will be well packed and guaranteed to reach you in good condition. No packing charge.

NAUGHER NURSERY CHASE, ALA.



WIGHT NURSERIES, CAIRO, GA.



SEMMES NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens.

Wholesale Catalog SEMMES, ALA.

BLACKWELL NURSERIES



SEMMES, ALABAMA

Azaleas, Camellias, Gardenias and a General Line of Ornamental Nursery Stock
Lining-Out Stock Our Specialty
WHOLESALE ONLY

Write for our complete price list of lining-out stock.

See our classified ad under the heading of Evergreens in this issue.

T. G. OWEN & SON, Inc.
COLUMBUS, MISS.

LINING-OUT and FINISHED STOCK

Offered below are potted rooted cuttings and field bed transplants, x indicating times transplanted. 25 of one item at the 100 rate, 250 at the 1000 rate. No charge for packing when cash accompanies order. Otherwise, 25 per cent with order, balance net 30 days where credit is established. Others, C.O.D. Packing at actual cost. All prices F.O.B. New Augusta, Ind.

LINERS

	Each per 100	Each per 1000		Each per 100	Each per 1000
849 Juniperus Horizontalis Plumosa, 1-yr. pots	\$0.17	\$0.15	5265 Taxus Media, Globe, 1-yr. pots	\$0.20	\$0.18
1391 Juniperus Communis, Vase, 1-yr. pots .....	.17	.15	7055 2-yr. pots .....	.23	.21
3742 Taxus Cupidata, 1-yr. pots .....	.20	.18	2741 6 to 8 ins., x .....	.25	.22
6022 2-yr. pots .....	.25	.23	1349 10 to 12 ins., xx .....	.35	.32
3799 6 to 8 ins., x .....	.27	.24	2731 Taxus Media Hatfieldi,		
3960 Taxus Cusp. Intermedia, 2-yr. pots .....	.25	.23	1-yr. pots .....	.20	.18
1017 Taxus Cusp., Kallay's Imp., 6 to 8 ins., x .....	.27	.24	2909 2-yr. pots .....	.24	.22
1689 Taxus Cusp. Nana, 1-yr. pots .....	.20	.18	1384 6 to 8 ins., x .....	.25	.23
4266 2-yr. pots .....	.23	.21	2417 8 to 10 ins., xx .....	.28	.25
897 6 to 8 ins., x .....	.25	.24	9503 Taxus Media Hicksii, 1-yr. pots .....	.19	.17
1772 Taxus Cusp. Pyramidalis Hillii, 1-yr. pots .....	.20	.18	1114 2-yr. pots .....	.23	.21
1396 2-yr. pots .....	.24	.22	4085 10 to 12 ins., xx .....	.34	.31
1884 6 to 8 ins., x .....	.26	.24	1865 Taxus Media Thayerae, 1-yr. pots .....	.20	.18
3226 Taxus Cusp. Tardiva, 2-yr. pots .....	.24	.22	1195 Taxus Media Wellesleyana, 2-yr. pots .....	.24	.22
			410 Thuja Occidentalis Elegantissima, 1-yr. pots .....	.16	.14
			930 Thuja Occidentalis Globosa, 1-yr. pots .....	.16	.14
			1897 Buxus, Carr's Hardy, 1-yr. pots .....	.20	.18
			883 2-yr. pots .....	.24	.22

FINISHED SIZES

Fine, finished, landscape grades, all R&B. 5 or more at the 10 rate; 25 or more at the 100 rate.

	Each per 10	Each per 100		Each per 10 per 100	Each per 100
600 Juniperus Chin. Pfitzeriana, 3 to 4 ft.	\$ 6.00	\$5.50	250 Juniperus Virg. Kosteri, 3 to 4 ft.	\$6.00	\$5.50
600 4 to 5 ft.	7.00	6.50	500 Taxus Cupidata, 18 to 24 ins.	4.50	4.00
400 Juniperus Horizontalis Plumosa, 2 to 2½ ft.	2.50	2.25	500 2 to 2½ ft.	5.75	5.25
300 2½ to 3 ft.	3.00	2.75	500 Taxus Media Hicksii, 18 to 24 ins.	4.50	4.00
300 Juniperus Horizontalis Douglasii, 2 to 2½ ft.	2.50	2.25	500 2 to 2½ ft.	5.75	5.25
100 Juniperus Virg. Pyramidifolia, 7 to 8 ft.	10.00	9.00	100 Thuja Occidentalis, 4 to 5 ft.	4.00	3.75
			100 Thuja Occidentalis Pyramidalis, 4 to 5 ft.	4.50	4.00
			200 Thuja Occidentalis Wareana, 2½ to 3 ft.	3.25	3.00

WRITE FOR COMPLETE LINER AND SURPLUS LIST

WANT LIST

The following items are needed, both in liners and finished stock. Please quote us what you can supply, per 100 and per 1000.

Euonymus Alatus Compactus, liners, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.
Mahonia Aquifolium, liners, 12 to 15 ins., 15 to 18 ins. and 18 to 24 ins.
Viburnum Rhytidophyllum, liners, 12 to 15 ins., 15 to 18 ins. and 18 to 24 ins.
Viburnum Toomentosum, 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.

SEEK EXEMPTION FROM DISABILITY BENEFITS LAW.

Having failed last December in their plea for exemption from the new disability benefits law which went into effect in New York state on January 1, nurserymen and flower growers are now placing their hopes in an amendment that will clearly exempt them from the provisions and tax of the law. Sponsorship of the amendment was announced by State Assemblyman Edmund R. Lupton January 27 before a joint meeting of the Suffolk county farm bureau florists' and nurserymen's committees at Riverhead, Long Island.

The disability benefits law is similar to workman's compensation insurance except that it applies to employees injured off the job or who are unable to work because of sickness. Miss Mary Conlon, chairman of the workmen's compensation board, has ruled that nursery and greenhouse operators are subject to the disability benefits law provided that the grower employs four or more persons regularly. While the new law exempts farm labor, it fails to state whether or not employees of growers of nursery stock and cut flowers are farm labor. The growers believe that they are, since their crops are subject to the same risks as farm crops and since the law increases production costs which cannot be passed on.

COVER ILLUSTRATION.

Cotoneaster Foveolata.

Cotoneaster foveolata, the glossy cotoneaster, is by some regarded as the choicest of the black-fruited species. It is a vigorous, stoutly branched deciduous shrub, reaching ten feet in height. The dark green foliage changes to scarlet or orange in autumn; it is of better and later autumn color than *Cotoneaster acutifolia*. This species is a native of China.

The leaves, up to four inches in length, are pubescent, with prominent veins beneath. The pinkish flowers appear three to six to the cluster.

Besides its vigor of growth, the glossy cotoneaster is recommended for its comparatively greater degree of immunity from insects and diseases than some of the other species. It does well in any good garden soil. As it stands clipping well, it may be used as a hedge. The striking autumn foliage and the black fruits give it value as a specimen plant or as a border shrub.

EVERBLOOMING ROSES

Field-grown, 2-yr., No. 1

Fine for Potting; Extra-fine Root System

We again offer our usual number and fine quality of 2-yr., No. 1, field-grown roses to the nursery trade. We grow about 300,000 plants each year. The quality is extra-good, and the special long and fine-rooted strain of multiflora understock makes our roses ideal for potting. Roses are a big part of our business; for this reason we have built the most up-to-date cold-storage facilities to handle and keep plants in perfect dormant condition throughout the season, often as late as June 1. Order now. Delivery can be made any time you specify. Satisfaction is guaranteed.

PRICES ON ALL ROSES EXCEPT PATENTED.

2-yr., No. 1, \$4.50 per 10; \$10.00 per 100; \$370.00 per 1000.
250 at the 1000 rate.

HYBRID TEA ROSES

RED VARIETIES	YELLOW VARIETIES	TWO-TONE VARIETIES	PINK VARIETIES
Poinsettia	Golden Dawn	Conde de Sastago	The Doctor
Etoile de Hollande	Yellow Condesa	Tallisman	Betty Uprichard
Ami Quillard	Golden Charm	Pres. Hoover	Pink Radiance
Rouge Mallerin	P. S. Du Pont	E. N. Perkins	Salmon Radiance
Christopher Stone	WHITE VARIETIES	Mrs. S. McGredy	Picture
Red Radiance	K. A. Victoria	Königin Luisa	Editor McFarland
Grenobie	Mme. Jules Bouche	Mme. Jules Bouche	Paul Neyron
McGredy's Scarlet	F. K. Druschki		

CLIMBING ROSES

Paul's Scarlet	POLYANTHA ROSES
Cl. Tallisman	Golden Salmon
Cl. Golden Charm	Edith Cavell
American Beauty	Orleans
Spanish Beauty	

POLYANTHA ROSES

Golden Salmon
Edith Cavell
Orleans

FLORIBUNDA ROSES

Cinnabar
Baby Chateau
Red Ripples
Else Poulsen

If interested in 2-yr., No. 1 1/2, write for prices and quantities.

CAN SUPPLY THE FOLLOWING PATENTED ROSES IN 2-YR., NO. 1.

CRIMSON GLORY	PRICE: \$9.00 per 10; \$75.00 per 100.
Mirandy	Countess Vandal
Charlotte Armstrong	White Briarcliff
Nocturne	Taffeta
Good News	Texas Centennial
Ellipse	Thornless Festival Bush
	Thornless Festival Climber
	Stratford Bush

Peace and Forty-niner, 2-yr., No. 1, \$11.00 per 10; \$100.00 per 100.

The KRIDER NURSERIES, Inc. MIDDLEBURY, IND.

GOOD SHADE TREES

Steve O'Rourke issued a bulletin from Michigan State College recommending *Gleditsia triacanthos* and *inermis* (thornless) as very good shade trees. We have fine trees; 6 to 8 ft., only \$1.25 each; 8 to 10 ft., \$2.25 each, F.O.B. Monroe, Mich.

MICHIGAN-GROWN PEACH TREES

Our peach trees are extra-heavy, showing what strong, healthy, vigorous trees they are. Prices are low at present.

3/4-in. caliper	Each per 100
11/16-in. caliper	\$0.45
9/16-in. caliper	.35
7/16-in. caliper	.25

They are going fast. Plenty of other fruit trees available.

ILGENFRITZ NURSERIES, Inc.

THE MONROE NURSERY MONROE, MICH.

NORTHERN-GROWN EVERGREENS

SPRUCE - JUNIPER

TAXUS - ARBORVITAE

Write for list.

BROWN DEER NURSERIES

P. O. Box 1747

Milwaukee 1, Wis.

WELLER'S PERENNIALS

With That Wonderful Root System

Headquarters for

HARDY MUMS AND PHLOX.

Ask for our Perennial Catalog.

WELLER NURSERIES CO., Inc.

Leading Perennial Growers

HOLLAND, MICH.

FOR PROMPT ACTION

Send us your Surplus List.

GROWERS EXCHANGE, Inc.

Brightmoor Sta. DETROIT 23, MICH.

Again

We offer for Spring, 1950
50,000 Juniperus Grafts
 (Grafted on Red Cedar)

ORDER NOW
 before certain kinds are sold out.

It's quality that counts.

Per 100 Per 1000

Juniperus chinensis		
columnaris glauca	47.50	\$450.00
keteleeri	47.50	450.00
compacta	47.50	450.00
mascula	47.50	450.00
pyramidalis	47.50	450.00
Juniperus virginiana		
burki	47.50	450.00
canaertii	47.50	450.00
canaertii compacta	47.50	450.00
elegantissima Lee	47.50	450.00
glauca	47.50	450.00
schottii	47.50	450.00
pyramidalis hillii	47.50	450.00
Juniperus squamata		
meyeri	47.50	450.00
Biota aurea nana		
compacta	45.00	425.00
Biota		
conspicua	45.00	425.00
Picea pungens		
moerheimii	95.00	...
Acer polymorphum		
ashi-beni (the best red)	90.00	...

Out of Pots and Beds

2000 Juniper, Pfizer,	Per 100 Per 1000
8 to 10 ins., 1-yr.,	
2½-in. pots	\$27.50 \$250.00
1000 Juniper, Pfizer,	
8 to 12 ins., strong,	
out of beds	42.50 400.00
1000 Taxus hicksii, 12 to	
18 ins., strong,	
3-yr. beds	45.00 450.00
1000 Arborvitae, pyramidalis, 6 to 8 ins.,	
2½-in. pots, out of frame	25.00 ...

**PAUL OFFENBERG
 NURSERIES
 COLUMBUS 9, OHIO**

OBITUARY

Clarence A. Reed.

Clarence A. Reed, 69, retired nut culture specialist of the United States Department of Agriculture, died January 14 at a hospital at Lakeland, Fla., where he had been spending the winter. He had been ill with a heart ailment for several years.

Born January 23, 1880, at Howell, Mich., Mr. Reed graduated from Michigan State College in 1905 and received his master's degree in horticulture from that institution in 1913. First employed by a landscape architectural firm at Chicago, he next served in the horticultural department of Maryland State College, now the University of Maryland. He was afterward with the agricultural experiment station at the University of West Virginia until joining the United States Department of Agriculture bureau of plant industry in 1907.

Specializing in the development of pecan and filbert nuts, Mr. Reed's research work in improving the varieties and in cultural and disease control practices in Florida and Georgia led to Congressional appropriations for the establishment of pecan experiment stations in many parts of the country. He is credited with developing two varieties of filberts, crosses of American and European species. In 1922 he was sent to China to find new varieties of the English walnut.

Before his retirement in 1947, Mr. Reed had written many bulletins and papers dealing with nut culture, and some of his articles have been printed in the Encyclopedia Britannica. He was a contributor to the American Nurseryman, his most recent article, "Chinese Chestnut Varieties," appearing in the January 15 issue.

In 1929, he was made the first honorary member of the National Pecan Growers' Association in recognition of his work with pecans. A past president of the Northern Nut Growers' Association, he was also a member of the Cosmos Club for twenty-five years and belonged to the Washington Academy of Science. He was active in local civic and church groups.

Memorial services were held for him January 21 at the Tokoma Park Presbyterian Church, Washington, D. C., where he had been an active member for many years. At his family's request, instead of flowers, contributions were given for the purchase and planting of two chestnut

PFITZER JUNIPER LINERS

5 to 8 ins., in plant bands for field planting.

Will outperform much larger bare-root plants and cost you less money.

Book your order
 for spring.

Immediate or later delivery if wanted.

We winter everything
 in the greenhouse.

300 or more,
\$13.50 per 100.
 Less than 300,
\$15.00 per 100.

Free samples on request.

McININCH GREENHOUSES
 ST. JOSEPH, MO.

LINING-OUT STOCK BUSHY, FIELD AND BED-GROWN

	Each	Each	per 100	per 1000
1000 Ilex Cr. Convexa , 2-yr., 2½-in. pots	\$0.25	\$0.22		
500 Ilex Cr. Convexa , 3-yr., 6 to 8 ins.	.40	.35		
1000 Ilex Cr. Convexa , 3-yr., 8 to 10 ins.	.50	.45		
1000 Ilex Cr. Convexa , 3-yr., 10 to 15 ins.	.65	.55		
1500 Ilex Cr. Rotundifolia , 3-yr., 8 to 10 ins.	.45	.40		
1000 Ilex Cr. Rotundifolia , 3-yr., 10 to 12 ins.	.55	.50		
1000 Ilex Glabra , 3-yr., 8 to 10 ins.	.50	.45		
1000 Ilex Glabra , 3-yr., 10 to 12 ins.	.55	.50		
1500 Ilex Opaca , seedlings, 3-yr., 12 to 18 ins.	.45	.40		
500 Taxus Cusp. Capitata , 5-yr., 12 to 15 ins.	.50	.45		

From cuttings.

500 **Hemlock, Canadian**, 6-yr., 10 to 15 ins.

No shipping. Please send your truck.

A. SHAMMARELLO & SON NURSERY
 SOUTH EUCLID 21, OHIO

	Per 100
Kolkwitzia, T, 9 to 12 ins.	\$12.00
Kolkwitzia, S, 6 to 9 ins.	9.00
Rhus cotinus, S, 3 to 6 ins.	6.00
Rhodotypos, S, 3 to 6 ins.	3.50

NEWPORT NURSERY CO.
 NEWPORT, MICH.

BURTON'S
 HEADQUARTERS FOR
 EVERGREEN GRAFTS, TRANSPLANTED
 EVERGREENS, SHRUB LINERS.
 RARE ITEMS YOU DO NOT
 FIND IN MOST LISTS!
Write!
HILLTOP NURSERIES
 CASSTOWN, OHIO

trees at a city park near Mr. Reed's home and for the purchase and erection of a bronze plaque and base.

Besides his widow, Mrs. Katherin McNaughton Reed, he is survived by an adopted daughter, Mrs. Harris Richardson, Washington.

Benjamin D. Wing.

Benjamin D. Wing died January 27. He owned and operated the Wing Nurseries, Mechanicsburg, O., which were founded by his father, Charles B. Wing, who died last summer.

In addition to his widow, Mr. Wing is survived by a brother, Winston, also of Mechanicsburg, but not connected with the nursery business.

Francis E. Amundson.

Francis E. Amundson, 59, Amundson Nursery, Osakis, Minn., died January 29 following a heart attack.

Born at Gailsville, Wis., January 21, 1891, Mr. Amundson had operated the retail nursery at Osakis for the past thirty-two years. He was a member of the Minnesota State Nurserymen's Association.

Survivors include his widow and a daughter, Mrs. H. E. Klamm, North Kansas City, Mo.

Mrs. Clyde von Grafen.

Mrs. Clyde von Grafen, who operated the Rincon Nursery, Santa Rosa, Calif., with her husband, died suddenly January 5.

She was an active member of the California Association of Nurserymen and of the Redwood Empire chapter of the state association.

Pallbearers included Richard Plath, H. Plath & Sons, San Francisco; Jack McDonnell, McDonnell Nursery, Oakland, and Frank James, E. James Nursery, Oakland.

AN enticing slogan is that of Peter's Evergreen Nursery, Sherburn, Minn., "Where Our Customers Send Their Friends."

TEN ACRES of nursery stock, estimated to be worth nearly \$25,000, will soon be offered for sale to wholesale buyers only by New York city. The land, located at Queens Village, Queens, was condemned last year to make way for a new high school. It was owned by the Cottage Gardens Nurseries, which have offices across the street from the tract. The department of purchase of the city, which is handling the 5,369 trees and shrubs, hopes to find a single buyer for the plants. Some of the unusual specimens have been removed to the Brooklyn Botanic Garden and to city parks.

LINING-OUT STOCK

Spring, 1950

Write for Our Illustrated List

TRANSPLANTS

	Per 100	Per 1000
Irish Juniper, T-2, 12 to 18 ins. 10 or more, each \$0.40.	\$20.00	.....
Waukegan Juniper, T-2, 8 to 10 ins.	15.00	.....
Creeping Savin Juniper, 2-2, 4 to 8 ins.	6.50	\$50.00
Green Barberry, 1-2, 6 to 12 ins.	9.00	.....
Red Barberry, 1-2, 9 to 12 ins.	7.50	66.50

SEEDLINGS

	4.00	25.00
White Spruce, 3-0, 2 to 4 ins.	4.00	22.50
White Spruce, 3-0, 4 to 6 ins.	5.00	30.00
Black Hills Spruce, 3-0, 2 to 4 ins.	4.00	22.50
Black Hills Spruce, 3-0, 4 to 6 ins.	5.00	30.00
Dwarf Montana Mugo Pine, 2-0, 2 to 4 ins.	3.00	25.00
Austrian Pine, 2-0.	3.50	25.00
Green Barberry, 2-0, 6 to 12 ins., 2500 for \$20.00	.....	.....
White Pine, 2-0, 2 to 4 ins.	3.50	28.00
Oriental Cedar, 2-0, 2 to 5 ins.	3.00	15.00
Papyrifera Birch	7.50	50.00

Scotch Pine Seedlings

2-yr. stock from Danish seeds.

Per 100	Per 1000	Per 5000	Per 10,000
\$3.00	\$18.00	\$80.00	\$150.00
Scotch Pine, 2-0, 3 to 7 ins. Sold Out.	.....	.....	.....

Glad to mail sample.

Terms: Cash with order, please, or 25 per cent with order and balance March 1. Packing included in price; shipment by express, collect.

25 at 100 rate; 250 at 1000 rate; will quote on 5000 or over.

E. C. MATTHEWS

HARBOR SPRINGS, MICH.

WE HAVE IN QUANTITY

Apple, 2 and 3-yr.
Pear, 2 and 3-yr.
Cherry, 1 and 2-yr.
Plum, 1 and 2-yr.
Apricot, 1 and 2-yr.
Peach, 1-yr.

Thurlow Weeping Willow,
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; *Juniperus communis*, glauca, keteleeri, Hill's Dun-dee, up to 3½ to 4 ft. *Pfitzer Juniper*, 15 to 18 and 18 to 24 ins. *Austrian and Scotch Pine*, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

C. M. HOBBS & SONS, Inc.

Phone: Indianapolis, Belmont 1812
BRIDGEPORT, IND.

*Let SHERMAN'S supply
your needs in ...*

Apple Trees
Plum Trees
Cherries
Small Fruits
Ornamental Shrubs
Shade Trees
Phlox
Roses
Perennials

Write for quantity prices on the above.

SHERMAN NURSERY CO.
CHARLES CITY, IOWA

JUNIPER GRAFTS

Top-quality, standard varieties.

\$6.50 per 10

\$50.00 per 100

\$450.00 per 1000

Trade list on request.

THE COTTAGE GARDENS

N.I.W. KRIEK

LANSING 15, MICH.

SPECIMEN

LANDSCAPE MATERIALS

Our Specialty

TAXUS

W. A. NATORP CO.

Cincinnati 29, Ohio

ORDER NOW

CHERRY, Montmorency.	Per	Per
Early Richmond.	100	1000
2-yr.-old.		
1-in. up, 5 ft.	\$75.00	....
11/16 to 1-in., 4½ ft.	65.00	....
9/16 to 11/16-in.	55.00	....
4½ ft.	55.00	....
7/16 to 9/16-in., 4 ft.	45.00	....
1-yr.-old.		
9/16 to 11/16-in.	50.00	....
3 ft.	50.00	....
7/16 to 9/16-in., 3 ft.	40.00	....
5/16 to 7/16-in.	30.00	....
2½ ft.	30.00	....
CHINESE ELM, seedlings,		
2-yr.-old.		
9 to 12 ins.	\$ 6.50	....
12 to 18 ins.	11.00	....
18 to 24 ins.	15.00	....
2 to 3 ft.	3.00	....
3 to 4 ft.	6.50	....
4 to 5 ft.	9.50	....
5 to 6 ft.	15.00	....
PRIVET, AMUR RIVER NORTH.		
12 to 18 ins.		
2 to 3 canes	4.50	....
12 to 18 ins.		
3 to 4 canes	5.50	....
PRIVET, THOMPSON.		
18 to 24 ins.		
4 to 6 canes, 2-yr.	7.50	....
18 to 24 ins.		
6 canes up, 2-yr.	10.00	....
POPLARS, LOMBARDY.		
Branched, 5 to 6 ft.	15.00	....
Branched, 4 to 5 ft.	11.00	....
Whips, 5 to 6 ft.	10.00	....
Whips, 4 to 5 ft.	7.50	....
Whips, 3 to 4 ft.	5.00	....
Whips, 2 to 3 ft.	4.00	....
PURPLE LEAF PLUM,		
Newport.		
5 to 6 ft., branched ..	90.00	....
4 to 5 ft., branched ..	75.00	....
3 to 4 ft., branched ..	60.00	....
PLUM,		
Sapa, Opata, Gold,		
Red June, Abundance.		
9/16 to 11/16-in.		
4½ ft.	45.00	....
7/16 to 9/16-in.		
3½ ft.	35.00	....
5/16 to 7/16-in., 3 ft.	25.00	....
APRICOT,		
Perfection, Superb.		
9/16 to 11/16-in.		
4½ ft.	45.00	....
7/16 to 9/16-in.		
3½ ft.	35.00	....
5/16 to 7/16-in., 3 ft.	25.00	....
FLOWERING PEACH,		
Double red.		
5 to 6 ft., branched ..	65.00	....
4 to 5 ft., branched ..	55.00	....
3 to 4 ft., branched ..	45.00	....
THUJA ORIENTALIS.		
Chinese Arborvitae, 2-yr.		
9 to 12 ins., sdgs....	4.00	30.00
PINUS NIGRA.		
Austrian Pine, 1-yr.		
2 to 4 ins., sdgs....	4.00	35.00
JUNIPERUS VIRGINIANA.		
Platte River, 1-yr.		
2 to 4 ins., sdgs....	2.50	20.00
4 to 6 ins., sdgs....	3.50	30.00
30 at 100 rate; 300 at 1000 rate.		
Packing FREE.		

M. MEYER'S NURSERY

5439 S. Hydraulic, R. 5 WICHITA, KAN.

VIRGINIA MEETING.

[Concluded from page 12.]

introduced him. He said that Americans and the rest of the world were ready to follow anyone because they were "eagerly seeking peace and surcease from turmoil in social, political and religious realms." He explained that this is the reason for the ever-increasing number of various cults that are being born daily.

Before adjourning, the nurserymen summarized their studies through the adoption of the resolutions to be sent legislative members of the congressional and state delegations.

The consensus about the value of the meeting was expressed by an out-of-state member, Henry B. Chase, Chase Nursery Co., Chase, Ala., who is considered by many as dean among the American nurserymen: "This convention," he said, "is the finest I have ever attended. I congratulate the Virginia nurserymen for devoting so unselfishly their time during this 3-day meeting to a discussion and a study of fiscal policies and governmental affairs that affect every American . . . and hope every nurserymen's group in every state in the Union will follow Virginia's lead. That is the only way we can battle effectively this government encroachment on our freedom to work and to live as free-born men."

OHIO MEETING.

[Continued from page 8.]

nursery rows during wet periods of spring. He urged care and caution to prevent drift of 2,4-D, as its effect may be noticed on plants 400 or 500 yards away. The spray should be applied on calm days, and one must be on guard against wind arising after application has started.

The new growth on taxus is burned by 2,4-D, and so application in spring is prevented, but after the growth has hardened in late summer weeds in the taxus block may be kept down by the chemical.

Mr. Kern had found quack grass easily killed by a Dow product called DCA. It must not be used in or close to soil in which there are nursery plants. And the direction of drainage must be watched, because the chemical is carried by water in the soil.

Dowfume he recommended to sterilize seedbeds before planting and so avoid pulling weeds later.

He had made a planting line by use of a galvanized steel sash cord cable on which he clamped bits of copper tubing at intervals of three feet.

Jack Siebenthaler, Dayton, showed



Growers of a complete line of deciduous and coniferous species.

JEWELL NURSERIES, INC.

Lake City, Minn.

SPECIAL -

Entire planting of Hicksi Yew

60	24 to 30 ins., B&B
290	18 to 24 ins., B&B
220	12 to 18 ins., B&B
400	9 to 12 ins., TT
350	6 to 9 ins., TT
200	6 to 9 ins., T

All heavy, first-class plants. Will make an attractive price on the entire lot.

Write for complete surplus list.

WHITE ELM NURSERY CO.

HARTLAND, WIS.

SALIX LINERS

Heavy, well rooted liners as follows for either immediate or later shipment.

	Per	Per
Salix blanda, 3 to 4 ft....	\$6.00	\$50.00
Salix babylonica, 3 to 4 ft....	6.00	50.00
Salix elegantissima, 3 to 4 ft....	6.00	50.00
Salix Niobe, 3 to 4 ft....	6.00	50.00
Salix salamoni, 3 to 4 ft....	6.00	50.00

THE KALLAY BROTHERS CO.

PAINESVILLE, OHIO

AMERICA'S BEST SOURCE FOR HARDY PLANTS

WRITE FOR TRADE LIST

MENTOR, OHIO

Wayside Gardens

movies of an Allis-Chalmers model G tractor, with front-mounted equipment, which had been cut down so that the wheels were within a space of thirty-six inches instead of the normal fifty-three inches. With this tractor, stock can be cultivated that is in rows forty-four inches wide, and the pictures showed the tractor going between rows of fruit trees four feet apart. This light tractor can also be used to snake out balled trees on a light 2-wheeled cart in weather when heavier equipment cannot get into the area.

Mr. Siebenthaler's films also included work of a Ford tractor operating a bulldozer to fill holes after trees had been dug in the nursery.

R. H. Miller, of Miller's Nursery, Elyria, described and showed slides of the tractor which was pictured in the American Nurseryman for November 15. By cutting down the body of a regular Bolens tractor to a width of twenty-two inches and attaching a framework overhead, he can ride between rows of evergreens with a 4-foot 8-inch clearance of the frame, which supports the two outside wheels. It is equipped with a telescoping-type adjustable cultivator, which requires no wrench for adjustment and can be changed from the driver's seat.

A RETAIL business known as Close's Nursery & Flower Shop has been started by Orville J. Close, 4351-54 Bennett road, Toledo, O.

NEWCOMERS to the nursery business are Mr. and Mrs. M. E. Scrimger, Nicholson Nurseries, La- peer, Mich., whose firm includes a newly erected greenhouse and eighty-one acres, six of which are in nursery stock.

RECENTLY the Droege Greenhouse & Nursery celebrated the twelfth anniversary of their establishment at Seymour, Wis. In 1937 George Droege bought five acres of land at the north end of Seymour, opposite the Outagamie county fair- grounds, and personally planted 6,000 evergreens. This was the beginning of the fulfillment of a long-cherished dream. With the encouragement of his daughter, Lucille, now Mrs. L. D. Hopkins, and the growing interest in his project, he added a greenhouse the following year. In 1945 his son, Stewart, and his wife, Leone, joined the firm. More land was purchased, and now the nursery consists of more than 10,000 plants. In 1946 a 25x50-foot addition was made to the green- house and a larger heating system installed.

ROSES

OREGON-GROWN
DELIVERY from ILLINOIS

We have an exceptionally fine stock of Roses for delivery this spring. Grown in the Portland area, low-budded on Multiflora Japonica, they made a splendid growth last summer, were thoroughly matured before digging and have reached us in the best of condition. They are available for shipment at any time.

	Per 10	Per 100	Per 1000
2-year, No. 1.....	\$5.50	\$50.00	\$45.00
2-year, No. 1½.....	4.50	40.00	.....

HYBRID TEA ROSES

YELLOW SHADES

RED SHADES
Ami Quinard
Christopher Stone
Etoile de Hollande
Glowing Carmine
Grenoble
Gruss an Teplitz
Red Radiance

PINK SHADES
Betty Upchard
Dame Edith Helen
Edith Nellie Perkins
Editor McFarland
Picture
Radiance

WHITE SHADES

Joanna Hill
Julien Pottin
(Golden Pernet)
McGredy's Yellow
Mrs. E. P. Thom
Mrs. Pierre S. du Pont
Sister Therese
(Soeur Therese)
Souv. de Claudius Pernet

TWO-TONE SHADES
Autumn
Condesa de Sastago
Duquesa de Penaranda
Edith Nellie Perkins
Heinrich Wentland
Mme. Joseph Perraud
Mrs. Sam McGredy
President Herbert Hoover
Tallman

FLORIBUNDA and POLYANTHA ROSES

Else Poulsen Improved Lafayette Golden Salmon Orange Triumph

BRYANT'S NURSERIES

Arthur Bryant & Son

PRINCETON, ILL.

SUGAR MAPLE LINERS

(*Acer Saccharum*)

With the present gloomy outlook for Elm and Oak trees, the Hard Maple, always an important shade tree, is now in much greater demand. Don't be caught short.

	Per 100	Per 1000
2 to 3 ft.....	\$16.00	\$150.00
3 to 4 ft.....	20.00	190.00
4 to 5 ft.....	25.00	235.00
5 to 6 ft.....	35.00	330.00
6 to 8 ft.....	45.00	425.00
8 to 10 ft.....	60.00	575.00

EVERGREEN NURSERY CO.

Established 1894

STURGEON BAY, WIS.

LAKE'S SHENANDOAH NURSERIES

Shenandoah, Iowa.

Wholesale growers of
a fine assortment of

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

Northern-grown Stock

Send
for
Price
List.

J. V. BAILEY NURSERIES

St. Paul 6, Minn.

Washington Holds Two-day Meeting

By Carol Wieting

The Davenport hotel, Spokane, Wash., was headquarters January 23 and 24 for combined meetings of the Washington State Nurserymen's Association and Washington chapter 28 of the American Association of Nurserymen. Nurserymen from all parts of the state attended, as did a number from Oregon. The 2-day meeting included many worth-while talks on horticulture and merchandising techniques. Spokane nurserymen were hosts for the event, and President Frank Stanek, of Stanek & Son, Spokane, presided at most of the sessions.

Virus-free Fruit Trees.

Much of the first day was given over to the discussion of horticultural problems along with several talks presided over by Dr. T. A. Merrill, head of the horticultural department at the State College of Washington. Opening this part of the program was a talk on "Virus Control and Nursery Improvement Program for Washington," by Dr. Earle Blodgett, of the irrigation experimental station, Prosser. For three years Dr. Blodgett has been testing fruit trees for their virus reaction. Most of his efforts have been directed toward building up a supply of virus-free fruit trees for propagation so that only virus-free trees will be sold by nurseries. Dr. Blodgett mentioned testing not only these fruit trees, but also those trees that were used as seed sources for understocks.

Some trials have also been made in testing clonal forms of understocks which have proved virus-free. If more satisfactory methods for propagation of these clonal forms could be achieved, they would prove a definite step in the direction of virus-free fruit trees. Additional trials are being made of better forms of some of the standard varieties of fruit trees. It has been found that what have been accepted as standard varieties of fruit trees will vary and it is possible to select superior performing types.

Stone Fruits Breeding Program.

Cooperating with Dr. Blodgett at the irrigation experiment station is Dr. Harol W. Fogle. However, Dr. Fogle spends most of his time on a breeding program for stone fruits for the state which he described in the next talk. While there are a number of good varieties of peaches, apricots, cherries and plums already

being grown, there must be a constant search for better kinds to fit some special local needs. Dr. Fogle pointed out that existing production schedules for peaches give the processing plants too many peaches at one time. The breeding and selection program is aimed at lengthening the harvesting season of peaches, at increasing the processing quality and at eliminating browning at exposure of the flesh to air. The aim is to produce peaches from late July to October.

The apricot breeding program at the station is well under way through the earlier acquisition of a considerable number of high-quality apricot seedlings from the United States Department of Agriculture. The aim of cherry tree breeding is to develop a fruit of the same quality or better than Bing or Lambert, but to have it crack proof, with a longer maturing

season and free from disease. A large number of stone fruit varieties are now under test at the station at Prosser.

Representing another branch of the state's system of experimental stations was the next speaker, Dr. Robert Lindner, who has been carrying on experimental work to determine if there is some chemical in plants that partly controls virus as a basis to further study. So far no chemicals have been found to control the disease. According to Dr. Lindner some virus may prove beneficial and may be injected into normal plants to produce certain effects such as dwarfness.

Dwarf Fruit Trees.

Because of the controversy over the value of dwarf fruit trees a talk by R. M. Bullock was well received. Mr. Bullock conducts fruit tree trials

ROSES—CLIMBERS and HYBRID TEAS

2-yr., Budded, Field-grown

Delivery now or late spring



Order from this ad today. Regular terms and conditions. Wrapped roses and colored labels, 5¢ additional.

PRICES

In 500 Lots: No. 1, 40c ea.—No. 1½, 30c ea.

In 100 Lots: No. 1, 45c ea.—No. 1½, 35c ea.

Less than 100: No. 1, 50c ea.—No. 1½, 40c ea.

REDS

Red Radiance
Etoile de Hollande
Poinsettia
Ami Quinard
Rouge Mallerin
Red Talisman

MULTICOLOR

President Hoover
Talisman

YELLOWS

Luxembourg
Golden Dawn
Golden Ophelia
Sunburst
Yellow Roslyn
Yellow Talisman
Golden Charm

WHITES

K. A. Viktoria

PINKS

Pink Radiance
Editor McFarland
Pink Columbia
Briarcliff

CLIMBERS

Paul's Scarlet
Red Radiance
Mrs. P. S. du Pont
Cl. Talisman

Order from This Ad Today.

OZARKS PLANT FARMS, Inc.

523 Seminole Drive

SPRINGFIELD, MO.

WANTED

Quotation on:

Compact Euonymus, 18 to 24 ins. and up.

Pachistima canbyi, 3-in. pots, or larger.

VARSITY LANDSCAPE SERVICE

105 NORTH TENTH ST.

LAFAYETTE, IND.

at the tree fruit experiment station, Wenatchee, including most dwarfing rootstocks and standard rootstocks. While dwarf-type apple trees could not be recommended for general commercial orchard use because of the loss in total production, they could be recommended for home garden use. The type known as Malling IX was suggested as having the most dwarfing effect. Some clonal forms of rootstock have been developed for standard apple trees which are superior to the usual seedling types available. These clonal forms have been selected for their hardiness, freedom from disease, etc., and are propagated by division or cuttings. However, the problem of propagation on a large scale has not been solved enough to permit their widespread use.

Mr. Bullock mentioned some of the varieties of apples that are proving superior in their trials of over 200 different kinds. Red Delicious is still the preferred kind but the search is going on all the time to find something better.

End of First Day's Program.

In introducing the next speaker, Dr. Merrill traced the development of the landscape architectural section of the department of horticulture at State College of Washington during the past three years. Classes and students in the ornamental horticulture group have been increasing, and the college recently added to its staff Willard Summers, a landscape architect, who talked to the group about "Home and Community Beautification as Related to the Nursery Business." He cited some of the reasons people like to plant their homes, including their desire to create a better place to live and to improve the investment made in a home and property. Because industry in general is decentralizing its buildings and creating roomier and more attractive sites, nurserymen are finding a steady demand for industrial plantings and should find an even greater demand in the future. Mr. Summers suggested concentrating on anticipating future needs of plant materials for all types of plantings.

For another part of the program, at which President Stanek presided, the group heard a talk by the garden editor of the Spokesman-Review newspaper, Dr. O. B. Howell, Spokane. He stressed the need for nurserymen to take advantage of newspaper articles by advertising the services or products that are mentioned in the garden articles.

George Eade of the Washington state nursery inspection service out-

SPRING, 1950, WHOLESALE PRICE LIST

Rooted Evergreen Cuttings

FIELD FRAMES	Per 100	POTS—Continued	Per 100
<i>Juniperus Hetzi Glauca</i>		<i>Taxus Capitata</i>	
1000 8 to 10 ins., 3-yr.....	\$27.50	2000 6 to 8 ins., pots.....	\$25.00
2000 8 to 10 ins., 2-yr.....	25.00	<i>Taxus Media Hickii</i>	
<i>Juniperus Hor. Pl. (Andorra)</i>		4000 6 to 8 ins., pots.....	25.00
4000 8 to 10 ins., 2-yr.....	20.00	1000 8 to 10 ins., pots.....	27.50
<i>Thuja Occ. Globosa</i>		<i>Juniperus Chin. Pfitzeriana</i>	
2000 6 to 8 ins., 3-yr.....	22.50	4000 8 to 8 ins., pots.....	20.00
4000 6 to 8 ins., 2-yr.....	20.00	4000 dwarf, pots.....	30.00
<i>Thuja Occ. Pyramidalis</i>			
2000 6 to 8 ins., 2-yr.....	22.50		

Terms: NET CASH WITH ORDER:
PACKING FREE

Orders will be filled in turn as received while our stocks last, subject to conditions beyond our control. An order for 25 of the same variety and size sold at the 100 rate. Minimum order, 100 plants. We would welcome your inspection. Location is 18 miles west of Chicago on Alternate U. S. 30.

ELMHURST NURSERIES, Inc.

York and Roosevelt Roads, ELMHURST, ILL.

Ted W. Smith, Pres.

Phone: 5686

Emil H. Martens, Mgr.

SPECIMEN THUJA

Pyramids from $2\frac{1}{2}$ to 3 ft. up to 7 ft. Beautiful, full, straight, transplanted trees grown at Monroe. Our digging is famous. You will be sure of the best. Order at once; ten or more.

Each	Each
per 10	per 10
2 $\frac{1}{2}$ to 3 ft.....	\$2.15
3 to 4 ft.....	2.75
4 to 5 ft.....	3.50

THUJA WOODWARDI

Woodwardi is certainly one of the best of all Globe Arborvitae; fine color, full, round plants. 15 to 18 ins. only \$1.40 each per 10.

VIRGINIA SEASIDE ROSES

Remember that we have most standard varieties of Hybrid Teas, as well as many patented varieties. Finest roses grown anywhere.

Per 100
\$50.00
47.50
45.00
42.50

ILGENFRITZ NURSERIES, Inc.

THE MONROE NURSERY

MONROE, MICH.

AMUR RIVER NORTH PRIVET

Per 1000

18 to 24 ins., 2 branches.....	\$30.00
18 to 24 ins., 3 branches.....	40.00

F.O.B. Tyler, Texas.

Terms: 25 per cent cash with order, balance C.O.D.

ROSE HILL FARM

R.F.D. 4

TYLER, TEXAS

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

VIBURNUM BURKWOODI

New—Fragrant—Hardy

Pinkish-white flowers in May
Heavy pot-grown stock for lining out. Spring, 1950, delivery.

Per 100 Per 1000
2 $\frac{1}{2}$ -in. bands..... \$27.50 \$250.00

F.O.B. Dayton, Ohio

No charge for packing if check accompanies order.

THE SIEBENTHALER COMPANY

3001 Catalpa Drive
DAYTON 5, OHIO

WHOLESALE NURSERY STOCK

Cushion Chrysanthemums, No. 1
rooted div.

General Line of Small Fruit Plants
Lining-out Evergreens
Fruit Trees

O.K. NURSERY

R. R. 2 BUCHANAN, MICH.

**Beautiful
NATIVE RED CEDARS**

	Per 1000
5 to 10 ins.	\$20.00
10 to 15 ins.	35.00
	Per 100
15 to 24 ins.	\$ 7.50
2 to 3 ft.	12.50
3 to 4 ft.	17.50

APPLE and PEACH TREES

	Per 100
2 to 3 ft.	\$ 8.00
3 to 4 ft.	12.00
4 to 5 ft., while they last.	20.00

APPLE TREES Per 100

	Per 100
5 to 6 ft., while they last.	\$30.00

GRAPEVINES Per 1000

	Per 1000
Concord, 2-yr., No. 1.	\$40.00
Fredonia, 2-yr., No. 1.	50.00

Also other bargains.

Will not be able to supply demand again this season. First come, first served.

Write for our new, very low prices on nursery stock. Big reductions.

ROLLERS NURSERY

Phone: 661 ROGERS, ARK.

**HEAVY 2-YR. SHRUBS
FRUIT TREES**

SPECIMEN EVERGREENS

LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798
Oklahoma City 1, Okla.

**EVERGREENS
SHRUBS
SHADE TREES
POPLARS**

5000 *Juniperus Pfitzeriana*, 2 1/4-in. rose pots. Now growing in greenhouse.

\$22.50 per 100; \$200.00 per 1000.

Write for surplus list.

THE HENRY NURSERIES

Ingels Bros.
HENRY, ILL.

**COMPLETE ASSORTMENT
OF**

**Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.**

Write for complete list.

**ONARGA NURSERY CO.
ONARGA, ILL.**

lined some legal measures that are contained in the state agricultural laws and apply directly to nurserymen.

Harold Abbott, of the Spokane park board, described the new Finch Arboretum and its value as a plant sales stimulant. While this arboretum is small, it is planned to include a large number of plants that are arranged and labeled for study. A sizable fund has been left the city for some of the maintenance, and to construct an administration building. Mr. Abbott showed pictures of other arboreta and areas in the Finch Arboretum that will be developed soon.

Better Perennials.

The meeting on the second day opened with a group of talks on "How We Can Make the Nursery Business Better," also presided over by President Stanek. The first speaker was Mrs. Frances Roberson, L. N. Roberson Co., Seattle, whose topic was "Better Perennials." She urged nurserymen to test and observe closely new perennials before urging customers to buy such material. A good plan would be to continue growing standard kinds and try a few new ones each year.

Better yet would be the practice of specialization. This would involve picking out a group of plants that had the most interest for the individual nurseryman and then trying as many kinds of that one group as possible. In this way a thorough testing of the whole field could be made and only the best selected for sale. Several nurserymen working on such a project could try many kinds while one individual could only test a few.

Special studies were suggested by Mrs. Roberson on the topics of soils, fertilizers, propagation and seed selection. Through years of experience, she has found the pot culture method of growing perennials for sale as being superior, where the sale price is enough to make this practice possible.

An effort should also be made by nurserymen to make every perennial plant customer a satisfied one by means of helpful suggestions at the time the plant is purchased. Even though a top-quality plant may be sold, the customer should be advised that such a plant needs good care and division every two or three years to give best results.

Transplanting Difficulties.

Difficulty in the transplanting of some types of shrubby plants led Larry Krause, E. Krause Nursery, Spokane, to comment on some production methods. He mentioned the

QUALITY STOCK

In Good Quantity

Excelsa Arborvitae, Each
24 to 30 ins. \$1.25
30 to 36 ins. 1.50

Baker Arborvitae,
24 to 30 ins. 1.30
30 to 36 ins. 1.50

Spiny Greek Juniper,
15 to 18 ins. 1.25

Euonymus Radicans
Coloratus, bare root,
18 to 24 ins.35

Euonymus Radicans
Coloratus, bare root,
2 to 3 ft.50

Write for list of other stock.

See our classified ads on Amur River South Privet, Chinese Elms and Quality Evergreen Liners.

VERHALEN NURSERY CO.
SCOTTSVILLE, TEXAS
Your Profits Grow in Verhaalen Plants.

HARDY

ENGLISH CHRYSANTHEMUMS

Sold for our Wholesale list of stock plants priced at 25c and 50c each for varieties that sold up to \$1.00 each last spring. You can order as few as one of a variety; 132 varieties to choose from. Also 5 varieties of *Rayonnaire* and 7 varieties of *Jewel*, and many others.

SPECIAL: 2 each of 50 varieties, our selection, \$20.00.

DICENTRA SPECTABILIS
3 to 5-eye and up, \$25.00 per 100;
500 for \$100.00.

BUXUS SEMPERVIRENS
Extra-strong rooted cuttings, \$5.25 per 100.

SMITH GARDENS

ROUTE 1, BOX 223
LEWISTON, IDAHO

THORNLESS HONEY LOCUST

	Per 10	Per 100
6 to 8 ft.	\$15.00	\$135.00
8 to 10 ft.	17.50	150.00
1 1/4 to 1 1/2-in. cal.	22.50	200.00

6 to 8 ft.	12.50	100.00
8 to 10 ft.	15.00	135.00
1 1/4 to 1 1/2-in. cal.	20.00	175.00

Free packing. Cash, please.

FOREST HILLS NURSERY
3736 HIGHLAND DR.
SALT LAKE CITY 6, UTAH

WESTERN WILDFLOWERS

Native plants of Montana, Idaho and northern Wyoming. 25 each of 25 species for \$25.00. Your selection from free list.

FRANK H. ROSE
1020 POPLAR ST. MISSOULA, MONT.

WE OFFER FOR SPRING NATIVE SHRUBS, SHADE TREES and EVERGREENS

<i>Azalea Calendulacea.</i>	Per 100	Per 1000
<i>Azalea Nudiflora.</i>		
12 to 18 ins., liners.....	\$ 7.00	\$ 60.00
12 to 18 ins., br.....	10.00	90.00
		Each
18 to 24 ins., br., B&B.....		\$ 0.80
2 to 3 ft., br., B&B.....		1.00
<i>Acer Rubrum.</i>		
<i>Acer Saccharum.</i>		
<i>Cornus Florida.</i>		
<i>Tilia Americana.</i>		
<i>Liriodendron Tulipifera.</i>		
<i>Quercus Alba.</i> White Oak.		
<i>Quercus Phellos.</i> Willow Oak.		
<i>Quercus Rubra.</i> Red Oak.	Each	
3 to 4 ft., br.....	\$ 0.20	
4 to 5 ft., br.....	.30	
5 to 6 ft., br.....	.40	
<i>Rhododendron Maximum.</i>		
<i>Kalmia Latifolia.</i>		
<i>Ilex Opaca.</i>	Per 100	Per 1000
3 to 6 ins., s.....	\$ 2.00	\$ 15.00
6 to 9 ins., s.....	3.00	25.00
9 to 12 ins., s.....	4.00	35.00
12 to 18 ins., s.....	5.00	45.00
18 to 24 ins., s.....	6.50	60.00
<i>Tsuga Canadensis.</i>		
3 to 6 ins., s.....	.75	6.00
6 to 9 ins., s.....	1.50	10.00
9 to 12 ins., s.....	2.50	20.00
12 to 18 ins., s.....	4.00	35.00
18 to 24 ins., s.....	6.00	55.00

CUMBERLAND PLATEAU NURSERY
YORK ROUTE CROSSVILLE, TENN.

SERVING YOU SINCE '72
FROM
THE CENTER OF THE SOUTH
The Southern
Est. 1872
Nursery & Landscape Co., Inc.
WINCHESTER, TENNESSEE
Phone-Write-Wire for Quotations

WE OFFER IN QUANTITY

Abelia Grandiflora, 6 to 12 ins.; 12 to 18 ins., b.r.; 18 to 24 ins., b.r.; 2 to 3 ft., b.r.
White-flowering Dogwood, *Amur River South Privet* and *Calyanthus*, seedlings, 6 to 12 ins.; 12 to 18 ins.; 18 to 24 ins.
White Walnut, seedlings, 12 to 18 ins.; 18 to 24 ins.; 2 to 3 ft.; 3 to 4 ft.
Red Cedar, transplants, and *Flowering Shrubs*.

Write for price list.

THE ARNOLD C. CLARK NURSERY
Phone: D 722
ROUTE 2 McMINNVILLE, TENN.

30,000 Potted Taxus Liners

1, 2 and 3-year.
Weigela *Eva Rathke*, transplants.
Viburnum Rhizanthophyllum.

HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

difficulty that nurserymen sometimes have with balled evergreens. Where a nurseryman has to buy through a salesyard, much of the specimen stock he sells, he has no way of knowing about the quality of roots that the balled plants contain. To help such nurserymen keep their customers satisfied, Mr. Krause suggested that producers of balled shrubs take special care in transplanting, so that good root systems with plenty of feeder roots will be developed. As sales in some areas are made in late spring and summers are likely to be dry, the root system is one of the most important parts of the plant and the one that will spell success or failure of the plant after it goes to the customer's home. Quality products with a guarantee were considered by Mr. Krause as one way to combat the transient vegetable-stand nursery that appears only during the selling season and then disappears.

Better Fruit Tree Varieties.

"Better Varieties of Fruit Trees," a topic presented by Wayne Melott, Carlton Nursery Co., Forest Grove, Ore., brought out the fact that fruit production over the country as a whole has fallen below normal in the past two years. This was pointed to as being of some encouragement to producers of fruit trees. Mr. Melott also stressed the fact that while there may be bumper crops of some fruits each year in various parts of the country, there is never a bumper crop in all parts of the country at the same time.

Nurserymen were urged to develop the market for fruit trees in home gardens. Four plus values were given by Mr. Melott as selling points for fruit trees, as follows: Beauty, the flowers and form of many fruit trees are an asset; fresh fruit, convenience at having it near at hand as well as the fact that it is often difficult to buy really fresh fruit; comfort in the shade of fruit trees, and increase in property value. A fifth point that was mentioned, but was considered more intangible, was the feeling of security that a property owner has in having his own fruit supply. As far as new fruit varieties were concerned, Mr. Melott felt that nurserymen should be constantly alert to modern developments so they could give their customers the best advice available to solve individual problems. It was not considered fair to the customer to handle poor or outmoded types.

Advertising a Source of Revenue.

Some suggestions on "Better Merchandising and Advertising" were

LINING-OUT STOCK OUR SPECIALTY

Ready for Field Planting BOYD'S 1950 PLANT GUIDE

Evergreen and Vine Liners

We are pleased to give you what we think is a darn good list of items to include in your Spring, 1950, plantings. Our lining-out stock will compare first-class, without a doubt, with some of the best stock to be had anywhere. So—please place your orders now and don't be disappointed later on in the season. Stock quoted F.O.B. McMinnville, Tennessee. (5 per cent discount on all orders received in February, with cash enclosed.)

EVERGREENS

All Field-grown Liners—Under Irrigation

<i>ARBORVITAE CHINESE.</i>	Each
2-yr. seedlings, 3 to 8 ins.....	\$0.03
<i>JUNIPER, IRISH.</i>	
Field-grown cuttings, 1-yr. to 6 ins., tops.....	.08
<i>JUNIPER, IRISH.</i>	
Field-grown cuttings, 1-yr. to 8 ins., tops.....	.15
<i>JUNIPER, IRISH.</i>	
Field-grown cuttings, 1-yr. to 12 ins., tops.....	.20
<i>JUNIPER, HORIZONTALIS</i>	
<i>PLUMOSA</i> , Andorra Juniper.	
4 to 6 ins.....	.08
1-yr., field-grown cuttings, 6 to 8 ins.....	.15
<i>JUNIPER, VIRGINIANA.</i>	
Red Cedar, Tr., 4 to 6 ins.	.03
<i>JUNIPER, VIRGINIANA.</i>	
Red Cedar, Tr., 6 to 12 ins.....	.04
<i>JUNIPER, VIRGINIANA.</i>	
Red Cedar, Tr., 12 to 15 ins.....	.05
<i>RED CEDAR.</i>	
Grafting size, 3/4-in. and up.	.05
<i>TSUGA CANADENSIS.</i>	
Canadian Hemlock, 2-yr. Tr., 2 to 4 ins.....	.05
<i>TSUGA CANADENSIS.</i>	
Canadian Hemlock, 2-yr. Tr., 4 to 6 ins.....	.07 1/2
<i>TSUGA CANADENSIS.</i>	
Canadian Hemlock, 2-yr. Tr., 6 to 8 ins.....	.15
<i>TSUGA CANADENSIS.</i>	
Canadian Hemlock, 2-yr. Tr., 8 to 12 ins.....	.20
<i>TSUGA CANADENSIS.</i>	
Canadian Hemlock, 2-yr. Tr., 12 to 15 ins.....	.25

LINING-OUT STOCK VINES

	Prices per 1000
<i>AMPELOPSIS.</i>	
<i>Virginia Creeper</i>	1-yr., 1-yr., 1-yr. No. 3 No. 2 No. 1
	\$30.00 \$40.00 \$50.00
<i>BIGNONIA RADICANS.</i>	15.00 25.00 30.00
<i>BITTERSWEET.</i>	
<i>BITTER CREEPER.</i>	20.00 30.00 40.00
<i>KUDZU VINE.</i>	25.00 30.00 35.00
<i>VITIS, Wld' Grapes.</i>	17.50 20.00 25.00
<i>VINCA MINOR.</i>	
Periwinkle	7.00 10.00 15.00
<i>WISTARIA, CHINESE.</i>	35.00 40.00 50.00
<i>WISTARIA, AMERICAN</i>	35.00 40.00 50.00
	Per 1000
<i>LONICERA, HALL'S JAPANESE</i>	
I.O., small div.	8.75
I.O., med. div.	10.00
<i>LONICERA, SCARLET</i>	
Tr., H.S., small div.	20.00
Tr., T.S., med. div.	25.00

Write for our complete catalog.

Boyd
NURSERY COMPANY

P. O. Drawer 71, McMinnville, Tenn.

outlined by Hal Bacon, of the sales promotion department of Spokane's Bon Marche. Of interest was his statement that advertising does not cost, but is actually a source of revenue to the nurseryman or general merchant. By comparing the northwest with his previous place of residence and business in another part of the country, Mr. Bacon showed that there were unlimited markets in the northwest. His suggestion was that nurserymen should set their sights on the peak of this market and then make a plan to arrive there. The first suggested step was to make words in the advertising material create a desire for plants.

Several members present contributed ideas for the betterment of the association in a round-table discussion which followed. Robert Beam, May Nursery Co., Yakima, presided at this session. During the afternoon most of the members present made a tour of the Kaiser aluminum rolling mill near Spokane. This factory, which covers many acres, is considered the largest aluminum rolling mill in the world.

A. A. N. Chapter Meeting.

President Robert Tindall, Tindall's Nursery, Bothell, presided at the meeting of chapter 28 of the American Association of Nurserymen. Chief item of interest was a Congressional bill regarding the Columbia valley administration. Two speakers were available to speak in favor of the bill and against it. These were former congressmen, C. C. Dill and Don Miller, respectively.

A report on recent A. A. N. progress was given by Bert Miller, Milton Nursery Co., Milton, Ore., executive committeeman for region VI. Special mention was made of plans under way for the annual convention at Washington this summer.

A report on a garden improvement contest being held at Seattle was given by Mrs. L. N. Roberson. Several professional and community groups are cooperating in this contest which should be of interest to nurserymen.

In a report by Robert Beam, a member of the A. A. N. publicity committee, local cooperation was stressed as a requirement in building nurserymen's markets through the various programs such as the "Plant America" project.

SOUTHWESTERN NEWS.

Orville Moffet, who is associated with Kelsey Nurseries, St. Joseph, Mo., as landscape architect, has purchased thirty-one acres of land on

We're Thru!

Having finished filling our retail orders, we offer the following stock at these below-the-market prices. All stock is strictly first-class and is up to grade specified. First come, first served. Cash with order, please. Packing at cost.

FORSYTHIA (mostly spectabilis)

	Per 100	Per 1000
18 to 24 ins.	\$1.10	\$10.00
2 to 3 ft., well br., 3-yr.	1.85	15.00
3 to 4 ft., well br., 3-yr.	2.25	20.00

SPIRAEA VANHOUTTEI

18 to 24 ins., well br., 3-yr.	1.75	15.00
2 to 3 ft., well br., 3-yr.	2.25	20.00
3 to 4 ft., well br., 3-yr.	2.45	25.00

HYDRANGEA P. G.

15 to 18 ins., well br., 3-yr.	2.50	22.50
18 to 24 ins., well br., 3-yr.	3.50	30.00
24 to 30 ins., well br., 3-yr.	4.50	35.00

PEACH TREES

	5/16-in. 8¢ ea.	7/16-in. 12¢ ea.	9/16-in. 17¢ ea.	11/16-in. 22¢ ea.
Mayflower	45	25	20	...
Red Bird	125	85	50	...
Golden Jubilee	20	50	65	...
Belle of Georgia	15	100	130	...
Othello (July Heath)	10	20	15	...
Queen of Dixie	35	50	60	20
Lemon Cling	10	10	10	...
Chinese Cling	5	10	20	...
Elberta	100	100	90	...
J. H. Hale	10	5	15	...

PLUM, PRUNE, APRICOT and DAMSON.

	5/16-in. 17¢ ea.	7/16-in. 25¢ ea.	9/16-in. 35¢ ea.
Green Gage		6	...
Abundance	10	15	15
Burbank	20	9	9
Moorpark Apricot	20	15	...
Stanley Prune	25	15	...
Blue Damson	20	20	15

500 CONCORD GRAPE, 2-yr. No. 1.....

300 CONCORD GRAPE, 2-yr. No. 2.....

Please give shipping instructions; how and when.

Write, wire or phone Nashville 5-6720.

The H. R. POTTER NURSERY JOELTON, TENN.



J. R. Boyd, President John T. Boyd, Vice-president

H. B. Stubblefield, Supt.

FOREST NURSERY CO.

McMinnville, Tenn.

Established 1887

Long Distance Phone No. 234

Growers and Wholesale Dealers

SHRUBS, FOREST and SHADE TREES,
EVERGREENS, VINES and CREEPERS

Trade list mailed on request.

50,000 DAHLIA ROOTS

We grow many acres of standard cut flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS
ROUTE 5 KANSAS CITY 3, KAN.

U. S. Highway 36, three miles east of St. Joseph. He and his family are now living on this land, and it is his intention to grow some nursery stock on it. Mr. Moffet's son Robert recently joined him in his landscape work.

It was announced recently that Shawnee Nurseries & Landscape Co., Shawnee, Kan., whose founder and owner, Frank Pfleum, died January 18, will continue in operation under the ownership of his widow, Catherine Pfleum, and under the manage-

ment of John Tonkin and Frank Pfleum, son of the founder. Mr. Tonkin has been associated with the nursery for several years.

Erwin W. Syfert is starting a nursery and landscape business at 342 North Bluff street, Wichita, Kan. Mr. Syfert is a recent graduate of Kansas State College, Manhattan, in landscape gardening.

A new nursery to be known as Heights Nursery will be opened soon at 221 North San Pedro street, Albuquerque, N. M., by David A.

GLADIOLI

will pay dividends at the nursery in the sale of bouquets to visitors, and the flowers bring in visitors.

1000 mixed, flowering-size bulbs, 12 or more colors, our collection "N." \$16.50.

Post card brings catalog.

VENNARD'S NURSERY
BOX 394-N SIOUX CITY, IOWA

HALL'S JAPANESE HONEYSUCKLE CLUMPS

3 branches and up. Also lining-out sizes and transplants if ordered soon. 100,000 to 200,000 Hall's Japanese Honeysuckle, transplanted, for fall, 1950, delivery. We grow them and book orders ahead at very low prices to the wholesale trade. Write for prices on car-load lots.

Also many more varieties in lining-out stock, seedlings. Redbud, Sugar Maple, Dogwood, Tulip Poplar, Moss Locust, *Rhus Aromatica*, *Ilex Opaca* (American Holly) and Red Cedar transplants and seedlings. Red and Black Chokeberry, 18 to 36 ins., liners, \$15.00 per 1000. 50,000 to 100,000 *Vinca Minor* (Common Periwinkle), 6 to 12 ins., \$7.00 per 1000.

TARLTON WHOLESALE NURSERIES
E. J. Morton
ROUTE 7 MCMINNVILLE, TENN.

CORNUS FLORIDA

	Per 100 Per 1000
12 to 18 ins., s.	\$4.00 \$35.00
18 to 24 ins., s.	5.00 45.00
	Per 10 Per 100
18 to 24 ins., br.	\$1.50 \$12.00
2 to 3 ft., br.	2.50 20.00
3 to 4 ft., br.	4.00 35.00

Write for spring price list.

MCMINNVILLE TREE CO.
BOX 125 MCMINNVILLE, TENN.

QUALITY JUNIPER GRAFTS

For Spring, 1950, delivery, from 2 1/2-in. pots on Virginiana understock.

We are grafting *Juniperus virginiana canaeris*, *glaucia*, *pyramidaliformis* (Dundee), *burki* and *keteleeri*, etc.

PAUL ARTERBURN NURSERY
BOX 72 ST. MATTHEWS, KY.

NATIVE EVERGREENS

	Per 1000
<i>Ilex Opaca</i> , 4 to 8 ins.	\$20.00
<i>Juniperus Virginiana</i> , 4 to 8 ins.	15.00
<i>Kalmia Latifolia</i> , 4 to 8 ins.	20.00
<i>Rhododendron Maximum</i> , 4 to 8 ins.	25.00
<i>Tsuga Canadensis</i> , 4 to 8 ins.	20.00

We refer you to our ads in January 1 and 15 issues.

O. H. PERRY NURSERY CO.
BOX 545 MCMINNVILLE, TENN.

PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy
American Nurseryman Chicago 4.

Gaunt and J. B. Lewis. A new building is being erected to house the business.

Dr. Robert Beer, who recently came from California to join the staff of the University of Kansas, Lawrence, as professor of economic entomology, will assist in nursery inspection during the summer months.

Cook & Cone, Ottawa, Kan., were low bidders on six roadside improvement projects in Osborne, Rooks and Marion counties. Their bids totaled \$16,485. J. P.

PRIZE RIBBON BANNER.

Prize ribbons won at flower shows and state fairs during the past thirty years of growing dahlias have been made into a banner by the Payne Dahlia Farms, Kansas City, Kan. At a recent flower festival at Kansas City Mr. and Mrs. Frank Payne were photographed with the banner, which also has been shown at flower shows, in windows of florists' shops when dahlias were on exhibit and in a large department store which sold the firm's dahlia roots.

The total cost of the banner was less than \$7.50, but it has been worth many times that in advertising value. The banner was made from a piece of black felt, 30x36 inches, on which lettering in gold thread spelled the firm's name and address. The prize ribbons in blue and red were hung below the lettering, making a colorful and neat display.

W. E. DAVIDSON RETIRES.

After forty-three years in the nursery and florists' business, W. E. Davidson, founder of the Davidson Floral & Nursery Co., 533 West Second street, Hastings, Neb., retired from business on January 1.

Mr. Davidson followed the dental profession until 1910, when, for reasons of health, he entered the nursery and florists' business at Holdrege, Neb. This business was later sold to other members of the family. In 1921 he opened a retail florists' shop at Hastings and in 1923 built a large range of greenhouses there, engaging in both retail and wholesale business. A store at Grand Island, Neb., the Davidson Floral Co., was opened in 1931, but was discontinued in 1948 following the death of a son, Oliver, who had been store manager. From 1931 to 1945 thirty acres were added to the nursery business, which specialized in the propagation of evergreens.

All interest in the Davidson Floral & Nursery Co. has been transferred

SURPLUS VARIETIES

1-yr. Peach Trees	Each
5/8-in. and up, 6 ft. and up.....	.35
11/16 to 5/8-in., 5 to 6 ft.....	.25
9/16 to 11/16-in., 4 to 5 ft.....	.20
7/16 to 9/16-in., 3 to 4 ft.....	.20

J. H. Hale	Mayflower
Indian Cling	Early Elberta
White English	Hilberta
Carman	Elberta
Belle of Georgia	Red Bird
Halehaven	Early Rose
Chinese Cling	Golden Jubilee

2-yr. Apple Trees

1-in., 6 ft. and up.....	.40
11/16 to 1-in., 5 to 6 ft.....	.30
9/16 to 11/16-in., 4 to 5 ft.....	.25
7/16 to 9/16-in., 3 to 4 ft.....	.20

Arkansas Black	Winesap
Early Harvest	Yellow Delicious
Astrachan	Red Delicious
Black Ben	W. B. Twig
Early Transparent	Stayman
Red June	Yates

1-yr. Plum Trees

5/8-in., 6 ft. and up.....	.40
11/16 to 5/8-in., 5 to 6 ft.....	.35
9/16 to 11/16-in., 4 to 5 ft.....	.25
7/16 to 9/16-in., 3 to 4 ft.....	.20

Mammoth Gold	Red June
Damson	Burbank

1 and 2-yr. Pear Trees

1 1/2-in., 5 to 6 ft.....	.60
9/16-in., 4 to 5 ft.....	.50
7/16-in., 3 to 4 ft.....	.40

Pineapple Kieffer Garber Cherry Trees

2 to 3 ft.....	.65
2 to 4 ft.....	.75

Montgomery Early Richmond 1-yr. No. 1 Grapevines

10c each	
Moore's Early	
Concord	

Weeping Willow Trees

6 to 7 ft.....	.75
7 to 8 ft.....	.90

Savin Junipers

18 to 24 ins.....	.15
-------------------	-----

I have owned this nursery for 30 years, and people come back every year and want more stock. All stock is machine-dug.

JOPPA NURSERY CO.

Grower of Fruit Trees,
Vines and Shrubbery
W. H. HILL
JOPPA, ALABAMA

We Offer

FOR SPRING AND FALL

An extra-fine lot of
Peach — Plum — Grape — Apricot
Cherry, Sweet and Sour
Can furnish carloads.

Also Shrubs, Evergreens and Shade
Trees.

Send us your want list.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

We wish to purchase . . .

Evergreens, Fruit Trees,
Shrubs, etc.

Send your surplus list to
THE PONTIAC NURSERY CO. Romeo, Mich.

STRAWBERRY PLANTS

TOP QUALITY

Prices on request.

CHATTANOOGA PLANT FARM
882 N. Chamberlain Ave. CHATTANOOGA 6, TENN.

RASPBERRY PLANTS

RED - BLACK - PURPLE

C. H. BENEDICT
GRAND JUNCTION, MICH.



MALONEY'S OFFER

Our 66th Year

A FINE ASSORTMENT OF HARDY UPLAND-GROWN

FRUIT TREES

1 and 2-year

STANDARD PEAR

STANDARD APPLE

PLUM, APRICOT, QUINCE

SWEET and SOUR CHERRY

PEACH, 1-YEAR

SHRUBS — ORNAMENTALS

Let Us Quote You Attractive Wholesale Prices on Your Spring Requirements.

Write for Complete Trade List.

MALONEY BROS. NURSERY CO., Inc.
DANSVILLE, N. Y.

EAST MALLING CLONAL FRUIT TREE STOCKS

STILL AVAILABLE

East Malling II and Myrobalan B.

ENGLISH VARIETIES OF GOOSEBERRIES

Layers for lining-out, \$20.00 per 100.

Gold Coin, Cousen's sdg.,
Leveller, London and Lancer.

MANTEN'S NURSERY,
WHITE ROCK, B.C., CANADA

VUYK VAN NES
BOSKOOP HOLLAND

Originators of Azalea Vuykiana,
Growers of choice Nursery Stock.

Please direct your correspondence to:
110 CEDAR STREET NEW YORK 6, N. Y.

"BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight
20 LARGE 4-bu. BAGS (2 color).....\$29.00
30 MEDIUM 2-bu. BAGS (2 color).....24.00
10 Large Standard Bales, each.....4.00
Ask for delivered carload prices on:
STANDARD BALES — EXTRA BALES — JUMBO BALES

HALF MOON MFG. & TRADING CO., Inc.
90 West Street New York 6, N. Y.

CHARLES SIZEMORE Traffic Manager

319½ Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.

to Mr. Davidson's son, Russell W., who operates the Davidson Nursery & Greenhouse, Inc., 1201 East Third street, Hastings. A graduate in landscape architect from the University of Illinois, Russell Davidson practiced his profession at New York and Cleveland before becoming associated in business with his father in 1931. Until 1942 he was manager of the store at Grand Island, and from 1942 to 1945 he assisted his father at the greenhouses, nursery and retail florists' shop at Hastings. Since 1942 the two have operated independently of each other.

DALLAS TREE CEREMONY.

President of the Dallas Nursery and Landscape Association, L. B. Berry, of that city, directed a tree-planting ceremony, January 22, at Parkland hospital, Dallas, Tex. Sponsored by the nursery association, the ceremony was in honor of two state-wide events, pecan-planting month and arbor week.

HOUSTON PLANT-UP WEEK.

The three months' plant-up campaign at Houston, Tex., will be climaxed in March during the city's beautification month which precedes National Clean-up, Paint-up and Fix-up week. As its part in the entire project, the Houston Landscape Nurserymen's Association is prepared to give away some 60,000 trees and \$1,000 worth of prizes to homeowners.

So that cooperation in the landscaping part of the project would be assured, the city was divided into fourteen sections, according to chairman of the plant-up committee, Frank S. Cornelius, Jr., of Cornelius Nurseries and secretary of the Houston Landscape Nurserymen's Association. The block in each section showing the most improvement will receive a prize, as will the second and third-place winners. The winning home from the block that places first in the city will win a \$500 console radio-television combination. Second-place prizes, which will be given to a maximum of eight homes, are \$125 in merchandise from the Houston Landscape Nurserymen's Association.

After examination of the home by a Federated Garden Club member, each competing homeowner will receive as an entrance prize a certificate entitling him to a free tree from any member of the landscape association. The members of the association, which expects some 60,000 requests from the 196,000 households in the

MALLING STOCKS

We offer Malling Stocks I, II, VII, IX, XVI and Quince A, B and C from stool beds originally supplied by East Malling Research Station. Guaranteed true-type and free from all disease.

Prices F.O.R., Liss Station, England. Per 100 Per 1000
Firsts, 6 to 12 mm.....\$6.00 \$56.00
Seconds 5.50 50.00

Also all the latest English varieties of fruit trees such as:

APPLES—Winston, Sunset, Laxton's Advance, Laxton's Epicure, Laxton's Fortune, George Neal, James Grieve, Tydemar's Early Worcester (mostly bred from Cox Orange).

PEARS—Laxton's Superb, Improved Ferrierity.

PLUMS—Early Laxton, Marjoriss Seedling.

All on stocks recommended by East Malling Research Station. Prices on application.

BLACKMOOR ESTATE

The Manager, Fruit Office
LISS, HAMPSHIRE, ENGLAND

Holland-Grown Nursery Stock

Shrubs and Trees,
including liners.

Rhododendrons and Azaleas
Hardy Perennials
Peonies

NOVELTIES IN ALL LINES
Ask for wholesale catalog.

F. J. Grootendorst & Sons

BOSKOOP, HOLLAND

Growers and exporters since 1903

WILLIAM VAN HERREWEGHE

(formerly W. E. & R. Van Herreweghe)

Export Nurseries

SERSKAMP, near GHENT, BELGIUM

FRUIT TREE STOCKS

EAST MALLING TYPES

ORNAMENTAL SHRUBS

FOREST PLANTS and Seedlings

ROSES and EVERGREENS

Prices on application.

Quality Holland Bulbs

C. WESTERBEEK & SON, Inc.

Wholesale Growers and Exporters.

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Write for price list.

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Reliable firm for general Nursery Stock and Belgian plants.

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We offer

HARDY RHODODENDRON HYBRIDS

Strong, 1-yr. plants.

List on application.

GULDEMOND & CO.

Since 1874 BOSKOOP, HOLLAND

city before the campaign ends, have stocked several varieties of trees, including thousands of 5 to 7-foot Chinese tallow trees.

An additional \$1,000 has been subscribed by the landscape nurserymen and the local seed houses for the general beautification campaign fund.

GRAND RAPIDS OFFICERS.

Peter Rickers, Keizer Nursery, was elected president of the Grand Rapids Nursery and Landscape Association at the group's sixth annual banquet meeting at Grand Rapids, Mich., January 26. He succeeds E. F. Durrant, Durrant's Nursery, president for the past four years.

Other officers elected are W. A. Barnaby, Barnaby Landscape Nursery, vice-president, and Wilbur Luijens, secretary-treasurer. Peter Dyk, John Koolen and Claude Jones were elected members of the executive board.

C. A. Boyer, chief of the state's bureau of plant inspection, assured association members that the state would continue to allow only disease-free nursery stock to be shipped into the state.

M. J. Parr.

MICHIGAN MEETING.

[Concluded from page 10.]

were a number of commercial exhibits, including those of C. E. Anderson, Inc., Berkley, Mich., Toro power mowers; Terminal Sales Corp., Dearborn, Mich., nursery supplies; Pontiac Nursery Co., Romeo, shrubs and fruit trees; Ilgenfritz Nurseries, Inc., Monroe, fruit trees; Atkins & Durbrow, New York, Pioneer peat moss; Krieger's Wholesale Nursery, Bridgeman, packaged strawberry plants; Pitney-Bowes, Inc., Stamford, Conn., postage meter; Gray, Inc., River Forest, Ill., asphalt paper plant containers; Wolf Detroit Envelope Co., Detroit, Mich., packet and mailing envelopes; Premier Peat Moss Co., New York, Premier peat moss; Growers Exchange, Inc., Detroit, Mich., bulb packages; Zonolite Co., Chicago, vermiculite.

NEWLY opened is a florists' shop in connection with the Morris Nurseries, St. Petersburg, Fla., owned by J. E. Morris.

IN NOVEMBER the Southern Tree & Landscape Co., Tuscaloosa, Ala., opened a branch office in the Homewood section of Birmingham, at 1841 Twenty-ninth avenue, which is under local management of John D. Kirby, landscape architect.

STRAWBERRY PLANTS

Certified

Grown on new land in isolated area. 30 acres of the largest and thirstiest plants we have ever grown. We are in a position to make you attractive prices on the following varieties.

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We will ship direct to your customers if you desire. You're welcome to come and see our fields. Let us quote you on your entire needs.



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H.G.Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials—Quality Stock in All Leading Varieties. Trade catalog on request.

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Tells where to buy over 50,000 different plants and seeds.

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FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry, 1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

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INTRODUCING

Hagerstrom's New Patented
(Pat. Pend.)

Everbearing Strawberry

(Wayzata x Fairfax)

Large berry, heavy fruiter, good quality and substance, reproduces freely. A great contribution to commercial and home garden strawberry growers.

Sold only under contract and royalty restriction for propagation for sale. A limited number of potted plants available this season.

Historical and descriptive price list upon request.

HILLCREST GARDENS

ALBERT LEA, MINN.

Authorized agent under contract for exclusive potted rights of Hagerstrom's patented strawberry.

EVERBEARING STRAWBERRIES

All the newest and best varieties. Fine, heavy-rooted, healthy plants.

Write for 1950 price list.

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HAMILTON, MONT.

GRAPE CUTTINGS

CONCORD and FREDONIA, \$3.50 per 1000, F.O.B. here. Tied with wire, 100 to bunch. Guaranteed true-to-name. Cut from our young, thrifty vineyard by experienced workmen.

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING SACRAMENTO 14, CALIF.

SAN JOAQUIN MEETING.

The January meeting of the San Joaquin Valley chapter of the California Association of Nurserymen was called to order by President Wilbur Wilhelm, Dinuba Nursery, Dinuba.

The minutes of the previous meeting were read and approved, and the treasurer's report was given, followed by a report from the membership committee stressing the need for an all-out membership drive. After the current correspondence was read, the main issues of the meeting were discussed. These were the questions of taxing nursery stock as personal property and the designation of the period from February 12 to 22 as tree-planting time in California.

Program Chairman Andy J. Caglia, Andy's Nursery, Fresno, introduced his guests, who were Conrad Schilling, plant quarantine inspector for Fresno county, and the speaker, Mace Long, of the Fresno county license bureau for insecticides, who told about his interesting travels in India and China.

Ivan L. Stribling, Sec'y.

REDWOOD CHAPTER MEETS.

The seventieth meeting of the Redwood Empire chapter of the California Association of Nurserymen was held January 17 at Cotati Inn, Cotati. Because of the death of Mrs. Clyde von Grafen, whose obituary appears on another page, the meeting had been postponed a week.

President Leo Ihle, Birchlane Farm, San Rafael, called the meeting to order, and a letter was read from Elmer Merz, executive secretary of the state association, which mentioned the problem of whether nursery stock should be taxed as personal property or not. The association office has prepared a brief in regard to this matter which will be sent to anyone interested in the question.

The president appointed the following members on a program committee to plan meetings for the next four months: James E. Egger, E. L. Egger & Son, Mill Valley, chairman; James A. Gaddis, Gaddis Nursery, Santa Rosa; Patrick T. Flynn, San Rafael Nursery, San Rafael, and

Joseph C. Badger, Redwood Empire Nursery, Santa Rosa.

The meeting was then turned over to Wayne Roderick, Roderick's Nursery, Petaluma, who introduced George Holman. After an informal chat, Mr. Holman, who has done extensive work in tree surgery, answered questions about tree cavities and wounds.

Hugh Wallace was designated to reserve the next place of meeting in the Marin area.

Ernest Munson, Sec'y.

CENTINELA MEETING.

The Centinela Valley chapter of the California Association of Nurserymen met at Kims, Inglewood, for a regular dinner meeting, January 16, at which President Jack L. Mather, Mather's Nursery, Redondo Beach, presided.

The speaker of the evening was Mr. Mueller, chief propagator of the bedding plant division, Gold Medal Plants, Inc., Los Angeles. He informed the group of the magnitude of the nursery industry, pointing out that there will be over \$2,000,000 worth of bedding plants produced and sold in Los Angeles county in

the spring of this year. Mr. Mueller emphasized the importance of brains, hard work and character in business. Strength, know-how and efficiency are also needed in producing and selling more plants.

The speaker stressed the use of adequate, appropriate, well timed advertising and warned against cheapening an item. Create the demand and sell it, he added. The importance of sincerity, truthful handling of information and confidence in the sales personnel was also discussed by Mr. Mueller.

Many points of technical character were discussed in the question period. Proper watering and care of plant material after it reaches the retail sales yard were pointed out as being an important factor in selling plants.

The Centinela chapter wishes to invite all nurserymen in the area to attend and take advantage of the regular informative dinner meetings, the next of which will be February 20 at Kims.

L. M. Hammond, Sec'y.

TRI-COUNTY MEETING.

The first meeting of the new year for the Tri-County chapter of the California Association of Nurserymen was held at Ventura, January 27,

FRUIT TREES

HARRISON BROTHERS

NURSERIES

G. Hale Harrison, General Manager

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SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

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Currants and Berry plants

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Evergreens—Shrubs

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Send for Complete Trade List.

W. N. SCARFF'S SONS
NEW CARLISLE, O.

FRUIT TREES

One-year-old **Napoleon, Windsor** and **Black Tartarian Sweet Cherry Trees.**

Please write for quotations.

EDWARD BACON & SON
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Heavy, well rooted.

2-yr. **Concord** and **Niagara.**

Hydrangea P.G.

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Write for prices.

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CULTIVATED BLUEBERRY PLANTS

Certified, stunt-free. Guaranteed true-to-name and age. Well branched, with fruit buds. Can ship to any state. Write for prices and sizes. Descriptive folder.

JOSEPH G. O'NEILL & SON
P. O. BOX 32-A MORESTOWN, N. J.

and was well attended. Because of the president's absence, Vice-president Ralph Curtis presided at a short business meeting. He introduced two new members, Sidney Trontz, Swift & Co., and E. M. Waring, Waring Nurseries, Shell Beach.

The evening was devoted to a talk and the showing of color slides of Switzerland by Walter Knecht, Ventura, who had just returned from a European trip with his wife. The talk was well presented, and the description and colored slides of the nurseries in Switzerland proved to the group that those firms are progressive and turn out some fine stock. The Swiss nurseries are much more specialized than American ones, and it would seem to the visitor they go deeply into their specialty.

Henry B. Stribling, Sec'y.

REVISION OF CALIFORNIA CORN BORER QUARANTINE.

Repeated findings in California of live larvae of the European corn borer in shipments of shelled corn from infested areas have necessitated a revision of the state's quarantine against the borer, according to A. P. Messenter, chief of the bureau of plant quarantine. From the several heavily infested midwestern states, there has been a gradual westward extension of this pest.

Under the revised quarantine, grain and seeds of corn, broomcorn, sorghums and Sudan grass may not be admitted to California until a certificate is issued proving that the shipment was produced in and shipped from an uninfested district, or, if it comes from an infested area, that it has been treated by an approved method or has been screened or otherwise freed of cobs, stalks or other plant parts capable of harboring larvae.

Various vegetables are listed on the new quarantine list as hosts to the corn borer, as well as cut flowers and entire plants of a number of perennials, including asters, chrysanthemums, calendulas, cosmos, hollyhocks, marigolds, zinnias, Japanese hops, dahlias and gladioli, except bulbs, corms or gladiolus tubers without stems. However, such vegetables, cut flowers and ornamental plants from uninfested states do not require certification to enter California. Shipments of less than 100 pounds of clean shelled grain and seeds listed by the amended quarantine, as well as packages of less than ten pounds, are exempted from the requirements for point of origin certification and will be admitted to the state subject to inspection at destination.



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Below, just a few from our large selection. In 2½" pots—PACKED FREE OF CHARGE, Prices F.O.B. Monrovia. Minimum quantity 25 per variety. Immediate shipment to any part of the country.

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<i>Erica melanthera rosea</i>	15c
<i>Eriobotrya japonica</i>	12c
<i>Eucalyptus rostrata</i>	10c
<i>Euonymus Silver Queen</i>	12c
<i>Fraxinus uhdei</i>	15c
<i>Hydrangea hortensis</i>	15c
<i>Leptospermum laevigatum</i>	10c
<i>Myrsine africana</i>	12c
<i>Myrtus communis compacta</i>	12c
<i>Prunus caroliniana</i>	12c
<i>Rosemarinus officinalis</i>	12c
<i>Viburnum japonicum</i>	12c
<i>Washingtonia robusta</i>	15c

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Let us quote on your
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Bridgman, Michigan

Chipman's RED RHUBARB

Large, No. 1 divisions.
The kind you like to get.
\$8.00 per 50; \$36.00 per 300.
Cash with order, packing free.
Packed in wire-bound citrus crates.
24-hour service.

KEELER'S GARDENS
SIOUX FALLS, SOUTH DAKOTA

CALIFORNIA NOTES.

Adrian J. Schoorl, operator of Schoorl's Seed Store, Burlingame and San Carlos, had a leg broken when he was hit by an automobile late in January while walking across El Camino Real, Belmont.

The Herbert Plaths, H. Plath & Sons, San Francisco, and daughters, Connie and Leilani, have recovered from a siege of flu which put the whole family to bed at one time.

Peter Valinga, Dutch bulb importer, has moved his headquarters to the Richardson Pet & Garden Supplies, Burlingame, and his family into a new home in the northern part of the city.

Nurserymen who are called on to talk before garden clubs and civic organizations may obtain a colored movie prepared by Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, without cost, which shows several of the firm's landscape jobs and some of the branch growing grounds of the nursery at Brentwood, Morgan Hill and Santa Cruz as well as the main location at San Jose.

Chairman of the entertainment committee of the Santa Clara Rotary Club is Don Hartman, Leonard Coates Nurseries, Inc., San Jose.

The Jack McDonells, McDonnell Nursery, are moving to a new home at Oakland, where the nursery is located.

Clarence Perkins, Jackson & Perkins Co., Pleasanton, recently returned from a visit to New York.

Two San Mateo residents are free on a \$500 bail for an alleged attempt to steal potted plants from the John E. Coulter Nursery, San Carlos. They were arrested on El Camino Real after their car, the driver of which was also held for drunken driving, struck a panel truck parked at the curb. Among the plants on the truck was a 6-foot redwood tree in a cedar tub.

Campbell and Cupertino are two new strawberries recently released by the University of California. The former, especially, seems to be good for home producers, for the fruit is a large, deep-colored, long-keeping berry of excellent quality. Campbell is also noted as a heavy bearer and is, to a large extent, disease-resistant.

Berry growers in northern California are adopting the Oregon custom of using geese rather than manual labor for weeding strawberry fields. A diminishing margin of profit from berry growing is said to be forcing the growers into the practice.

Everett E. Farwell, Oak Knoll Nursery, Oakland and San Mateo, was guest speaker on one of Norvell Gillespie's programs over KFRC-TV.

THE SHERWOOD RED AZALEA

is taking the country by storm. Happy customers everywhere, and many repeat orders. The most magnificent, hardy evergreen azalea known. Don't be caught short on this fast-selling item. Stock is moving rapidly. See our wholesale trade list for description. Fine, budded specimen plants, 6 to 9 ins., shipped bare-root and carefully packed, \$43.00 per 100.

Also this great favorite—

SHERWOOD ORCHID AZALEA

Fine, budded specimens, 9 to 12 ins., shipped bare-root and carefully packed, \$51.00 per 100.

Order now for spring delivery. Cash only. We have many items in lining-out stock listed in our wholesale catalog available to the trade.

**ALSO CHINESE PINE**

Fine B&B Specimen Trees	Each	per 100
18 to 24 ins., B&B	\$0.81
24 to 30 ins., B&B	1.22
30 to 36 ins., B&B	1.54

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Over 350 Varieties. Specimen plants, all sizes, lots of bloom buds.

RHODODENDRONS

Fancy and grafted varieties.

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Finest of stock.

Also Evergreen lining-out stock.

Write for price list

PORTLAND CAMELLIA NURSERY

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CHINESE ELM SEEDLINGS

Per 100	Per 1000
12 to 18 ins.	\$2.50
18 to 24 ins.	3.50
2 to 3 ft.	5.00
3 to 4 ft.	7.50
	15.00
	20.00
	30.00
	50.00

Send for prices on
Bartlett Pear trees.

WASHINGTON NURSERIES

TOPPENISH, WASH.

Mr. Farwell spoke on how to grow rhododendrons, demonstrating the proper methods of planting, feeding and spraying the plants.

Grace and Alvin Totten, proprietors of the new firm of Totten's Perennial Gardens, Capitola, will specialize in rare perennials, but will also carry a full line of ornamental plants and garden supplies.

Jules H. Rodigou, San Francisco park department gardener, has been appointed district nursery inspector by the state department of agriculture. His district includes the Sacramento valley north to the Oregon line.

Eley H. McEachern, Newport Beach, has been appointed inspector for the district covering Los Angeles, Santa Barbara and Ventura counties.

Ted Ettlinger, who called on the nursery trade in the northern and central part of the state for the H. V. Carter Co., is now employed as a salesman for Swank, Inc. W. B. B.

PORTLAND ROSE AWARDS.

Winner of the city of Portland's gold certificate is the rose, Fashion, introduced by the Jackson & Perkins Co., Newark, N. Y., according to a recent announcement by Fred Edmunds, curator of the International Rose Test Gardens, Portland, Ore. The color of the winner is described as coral suffused gold.

The Jackson & Perkins Co. and Armstrong Nurseries, Inc., Ontario, Calif., received several silver certificates for other varieties also.

PENNSYLVANIA MEETING.

[Continued from page 13.]

eries will have to go along with this, even though not directly affected, since they will have to compete for labor.

Economic Trends Predicted.

Since the general theme of the whole meeting was "Changing Times," the next topic "Changing Times in General Business Conditions" by Dr. Myron S. Heidingsfield, professor of marketing, Temple University, Philadelphia, was most appropriate. Dr. Heidingsfield believes the capitalistic system is the most desirable and hopes to see it continue. In forecasting economic trends, he stated that it was easier to consider a single business than the whole country.

There are four major trends, according to Dr. Heidingsfield. First, the big expansion in population means more mouths to feed, more housing and more equipment. Second, the increase in life expectancy results in an increase in average age, which in turn means a tendency toward more conservative thinking, since the older group is more interested in security. There is a possibility of a pension system to cover everyone. An increase in the retirement age should be desirable. The third trend is the increasing demands by labor without an increase in production. If this continues, high prices can be expected to remain for a long time. The fourth trend concerns sources of energy. Formerly most of the energy came directly from animals and man. Now most of the energy used comes from coal, water, oil and natural gas. Social and economic trends used to be figured on the basis of land, labor and capital. Now a fourth factor must be considered. This is government, and no predicting can be done today without considering the action of the government.

Dr. Heidingsfield said obstacles to good business conditions on a national basis are the decline in industrial production, the constant threat of industrial strikes and the decline in exports. When exports under the Marshall plan cease this decline will be more acute. Local obstacles are the growing farm surplus and the increasing decline in farmers' purchasing power, the increasing tendency of people to put savings in government bonds or insurance instead of in capital investments, and higher taxes. Increased deficit spending is likely to make people more conservative.

Factors on the brighter side are that people have high standards of

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Avery H. Steinmetz

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PORTLAND 14, OREGON

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OREGON-GROWN
BEST QUALITY**

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SHADE AND FLOWERING TREES

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FRUIT TREES

DECIDUOUS SHRUBS

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Combination carloads to Eastern
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Northwest-grown

Apple and Pear

Branched and Straight Roots

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Root-pruned Branched Roots

Our Quotations Gladly Given.

Combination carlots available
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**Wholesale Growers
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ROSES—TREE ROSES

Reservations made for 1950 season.
Good varieties—excellent quality. Write
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Azaleas, Conifers, Heathers, etc.
Available in rooted cuttings and field
transplants grown in sandy soil.

Write for descriptive, illustrated
catalog.

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Wholesale Propagators and Growers of
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AURORA, OREGON

FRUIT and NUT TREES

Grown and Selected especially for the retail
Salesyard.

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"Over Half a Century" — Since 1890
Forest Grove, Oregon

ROSES

Two-year-old, field-grown plants.
Send for wholesale list.

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living. Although there was a slight reduction in employment last year, a rather steady level of employment can be expected. There will be a continuation in the demand for homes. This will favorably affect all allied industries and should be desirable for nurserymen. Last, there is no indication that prices will decline, but they likely will remain stable.

In summary, Dr. Heidingsfield felt there would be no immediate recession, but that business would be no better than during the last half of 1949. Most businesses will make about the same money as last year, but will have to work harder to make sales. There definitely is a buyer's market at the present time.

Garden Planting Suggestions.

The next speaker was Dr. Joseph H. Howland, garden editor of House Beautiful, whose subject was "Modern Gardens Are To Be Lived In; Not Just Looked At." He said most people in the United States are not garden conscious. Comparatively, a small amount of the total cost of a home is applied to gardens. According to some estimates, on an above-average home with about five acres of land, only about \$250 is spent on the gardens, and this includes tools, fertilizers, lawn and plants. Why do not people buy more?

He stressed the importance of climate control in developing pleasing and livable gardens. The effect of plant materials properly placed is inestimable in governing the temperature of areas in the garden. Plants should be used to shade terraces and the home so more comfort is available during the hot seasons. The use of deciduous vines over windows is desirable for shading purposes. Large paved areas near the house should be avoided if possible, since paving material absorbs tremendous amounts of heat and raises the surrounding temperature excessively. When such large areas are necessary, attempts should be made to use grass borders and to plant trees in strategic spots to provide shade. A curious thing about plants is that they stay approximately the same temperature as the air and will thus help lower the temperature of a garden spot several degrees.

Air drainage in gardens should not be forgotten, Dr. Howland said. Since cooler air seeks lower levels, a garden on a slope should have provisions for closing the lower border to trap the cool air. A gate or hedge planting might accomplish this. In seasons when warmer air is desirable, an opening will allow the cool air to drain away. Proper planting will also

ATTRACTIVE CHINESE PINES

They are going rapidly, but we still have a considerable number of these beautiful conifers left for spring delivery, at the following low cash prices, F.O.B. Portland. No packing charge.

B&B sheared specimen trees, 3 times root-pruned, 24 to 30 ins.....	Per 100 \$122.00
B&B sheared specimen trees, 3 times root-pruned, 30 to 36 ins.....	154.00

These trees can be shipped 2000 to 4000 per car, depending on grade of trees and size of car.

These are fine, full-foliaged trees; baled, wrapped and handled by experts. They are first-class, in every respect, finished specimens.

Pinus tabulaeformis (Chinese Pine)

A medium-sized conifer native of western China. Dense foliage, which clothes even the stem and branches. Needles 2 to 4 inches long, charmingly brilliant green, soft to the touch and of soft, silky luster. The foliage is a distinctive and decidedly pleasing shade of green, and is in this respect unquestionably the finest of any conifer that we are growing. Its general effect is just right. The trees carry a fresh green foliage throughout the year, and are hardy into New England.

For extensive plantings such as highways and embankments, public grounds and parks, estates, hillsides, memorials, windbreaks, snow and sand barriers, hedges and coast and livestock protection, this hardy pine could scarcely be surpassed.

It has been proven by test that it requires twice as much fuel to heat a home with the temperature at 32 degrees and a wind 12 miles an hour as it does to heat the same home with the wind at 3 miles an hour and temperature at 32 degrees. A good windbreak soon pays for itself in exposed situations.

The Chinese Pine combines beauty and utility. It can also be planted for protection against excessive heat.

Wire or write today.

SHERWOOD NURSERY CO.

Evergreens — Propagators and Growers — Wholesale

141 S.E. 65th Avenue

PORTLAND 16, OREGON

Also fine baled stock in *Tsuga mertensiana* (Mountain Hemlock), *Abies lasiocarpa* (Alpine Fir), *Cunninghamia lanceolata* (Chinese Fir) and other rare and choice subjects.

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Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. *Angers Rooted Quince Cuttings*, *Chinese Elm Seedlings* and *English Privet*.

We aim to please with quality stock.

John Holmason & Sons, Props.

control wind movement so that a porch or terrace may receive a breeze when otherwise none would reach them.

Concluding the afternoon session, Donald L. Crouse, regional group manager, Lincoln National Life Insurance Co., spoke briefly on "Pennsylvania Nurserymen's Association Group Insurance," outlining the benefits of the group insurance at the various levels. An ordinary laborer receives \$1,000 death benefits; a foreman or skilled laborer, \$2,000, and owners or executives, \$5,000. Members of the association have one year from the starting date to enter the group plan. More members in the plan will aid all. The cost at the present time is roughly 35 cents per week on a \$1,000 policy.

The banquet Wednesday evening was attended by about 175 nurserymen and friends.

FOR 1950 SEASON

- Fruit Trees
- Small Fruits
- Fruit Tree Seedlings
- Flowering Trees
- Shade Trees
- Shrubs
- Roses

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

RICH & SONS NURSERY

Hillsboro, Oregon

At the business session Thursday morning, several changes in the constitution and bylaws were approved.

Outlook for Retail Merchants.

The concluding speaker of the morning was Harry Raben, Goldfarb Flower Shops, Inc., New York, who spoke on "The Retail Merchandising Outlook for 1950." Mr. Raben believes that those using ordinary business methods will do about the same volume as last year, in some sections maybe slightly below. The outlook for those using out-of-the-ordinary methods of business is good.

Nurserymen as a whole are rather backward in methods of bringing their merchandise to the public, said Mr. Raben. There are many new homes being built, and each means a potential

OREGON'S BEST SOURCE OF GOOD ROSES

A complete list of HYBRID TEAS, CLIMBERS, BABIES and FLORIBUNDAS. Also, one of the most complete lists of patent varieties, including the A.-A. R. S. award winners.

SEND FOR OUR LISTS.

EASTERN REPRESENTATIVE:

FRANK C. DONOVAN
5056 WASHINGTON BLVD.
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PETERSON & DERING
ROSE GROWERS
Scappoose, Oregon

DEL RANCHO FORTUNA
FRUIT TREES
and
GRAPEVINES

P. O. Box 548
McFARLAND, CAL.

KEEPS ROOTS MOIST

* When packing bare roots or deciduous stock for shipment or storage, use Wood Feathers brand cedar shavings (red cedar shingle tow). There are 3 reasons for Wood Feathers' superiority:

1. Large moisture-absorbing capacity.
2. Will retain moisture for a long period of time.
3. Economical and easy to use.

Wood Feathers
BRAND
CEDAR SHAVINGS
P. O. BOX 98 NORTH PORTLAND, ORE.

BALED SHINGLE TOW (CEDAR SHAVINGS)

WM. A. JOHNSTON
1722 N. W. 15th St. Portland 9, Ore.

ROSES

2-yr., on multiflora, in all the most popular standard sellers. Also some on manetti for greenhouse use. Rooted multiflora for fence rows.

Send for list.

Art Suhr, prop.

MT. HOOD NURSERY GRESHAM, OREGON

new customer for a planting job. Nurserymen should try to sell the idea that the yard is an extension of the living quarters and an item to be included in the total building budget.

There have been an increase of about twenty-five per cent in public housing and a decrease of about five per cent in private housing. This should not alarm nurserymen, since the large public building projects will also need to be planted. In many cases, it may be easier and more profitable to do one large job than several small ones. The trend of moving to the suburbs should not be a loss to the nursery industry, since its products can be used as easily in the new areas. It is estimated that 1,000,000 new dwellings will be erected. If one takes the average cost as \$10,000 and figures one per cent of the cost for planting work, there would be an increase of \$100,000,000 for nursery products.

In order to do a good job of merchandising, Mr. Raben said that advertising is important. This means presenting the goods to the public through all sorts of publicity channels, such as newspapers, magazines and the radio. Advertising should have price appeal, but should be honest rather than deceptive. The fellow who offers sixty or more plants for \$2.49, which turn out to be mostly whips or rooted cuttings, should be watched. People who are stung on such an offer gain the impression nurserymen in general cannot be trusted. It may be possible to secure aid from the Federal Trade Commission to abolish such types of competition. A good way to attract interest is to offer free items, but the item must be absolutely free with no strings or conditions attached. About five per cent of retail dollars should be spent in advertising.

Another important aspect of selling, according to Mr. Raben, is glamorizing products. Nurserymen do not spend enough on their packages for eye appeal. Many articles are bought on impulse because of the attractiveness of the package when there had been no previous intention to buy. Such items must be close at hand so the customer will see them and be tempted to buy. Tie-in sales are important. If a person comes to buy one rose plant, try to sell other articles, such as fertilizer and spray material.

If a profit is to be made, the products must be distributed. This means getting the material to the public. Customer service is important. The one who gives more service will receive more business. A full assortment of material must be on hand so that the customer can buy what he wants without making several stops.

Striflings
NURSERIES
THE WEST'S
LEADING GROWERS OF
RESISTANT ROOTSTOCKS

S-37

PLANT PATENT 904
AMERICA'S FINEST
NEMATODE RESIS-
TANT PEACH ROOT-
STOCK.

MARIANA - 2624

LEADING RESISTANT
PLUM ROOTSTOCK

1613

LEADING RESISTANT
GRAPE UNDERSTOCK

40 YEARS EXPERIENCE
PRODUCING
GROWING  QUALITY
NURSERY PRODUCTS

Fruit Trees
Shade Trees
Grape Vines
Flowering Trees
Field and Container
Grown Ornamentals

WRITE FOR PRICE LISTS
AND DESCRIPTIVE BULLETINS

Striflings
NURSERIES
OFFICE and SALES YARD ON 99 HIGHWAY NORTH
PHONE 86 P.O. BOX 793 MERCEDES, CALIFORNIA

CLASSIFIED ADS

Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

AZALEAS

We are booking orders for superior-quality, coldframe-grown Azalea liners for spring delivery at \$1.00 per 100, \$9.00 per 1000.

KURUME and PERICAT.

4 to 6 ins.

Christmas Cheer

Coral Bells

Hinodegiri

Hortensia

Pink Pearl

Salmon Beauty

Salmon Queen

Snow

Dawn

Gardenia Supreme

Japonica

Mme. Pericat

Pink Pericat

Sweetheart Supreme

Twenty Grand

Special quotation on large quantity. See our Camellia ad.

COTTAGE HILL NURSERY

T. Klyono, Mgr.

Rt. 4, Box 130 Mobile, Ala.

AZALEAS.

Thousands of beautiful, well budded Azaleas have been sold this season. Coral Bells, the beautiful deep pink, is the only variety that remains in quantity.

Each Each per 100 per 1000
10 to 12 ins. \$1.15 \$1.00

Packing additional. Burlapping, 10c each, extra; 25¢ at 1000 rate. Order today while they last, and send for list of other stock.

TANKARD NURSERIES

Exmore, Va.

75,000 AZALEA TRANSPLANTS.

Indica alba, Mary, Hinodegiri, Alice, Amoena, Hinomayo, Flame, Purple King, mixed pink kaempferi.

Very heavy, rooted.

12½c each in 1000 lots; 15c each in 100 lots. Packing and shipping extra.

DEKALB NURSERIES, Inc.

Norristown, Pa.

AZALEA TRANSPLANTS—\$14.00 per 100, \$125.00 per 1000. No packing charge. Hinodegiri, Coral Bells, Hinomayo, Flame, Purple King, Pink Pearl, Hexe, Sherwood, Sweetheart Supreme, Orange Coral Bells, Gardenia Supreme, Sweet Briar and Amoena. JOHN WIGMORE, Norman Ave., Riverside Park, Riverside, N. J.

AZALEA TRANSPLANTS.

3 to 5 ins. well branched. Hinodegiri, Pink Pearl, Hinomayo, Flame, Lefidolia alba, Magnifica, Coral Bell, Amoena and choice mixed. Ready in May, \$13.00 per 100. Packing free. Cash with order.

BUCKINGHAM NURSERY

Box 144 Buckingham, Pa.

BERRY PLANTS

RASPBERRY PLANTS.

BLACK, No. 1 Tips. Cumberland Logan Bristol Morrison

PURPLE, No. 1 Tips.

Sodus RED, No. 1 Suckers and ¼-in. cal. Transplants. Indian Summer Latham

Complete list of grapevines, currants and blackberries. Write for lowest wholesale prices on your requirements. A portion of the above is in storage ready for immediate shipment, and a portion will be Spring-dug in late March.

H. CONGDON NURSERY

North Collins, N. Y.

PIXWELL and SCHWAB GOOSEBERRIES, LATHAM and CHIEF RASPBERRIES.

Pixwell Gooseberries leading variety, 1-yr. heavy, \$25.00 per 100, 2-yr. light, \$18.00 per 100. Schwab Gooseberries, new seedling (world's largest Gooseberry), berries often 1½ ins. in diameter, highest quality, hardy, very productive, 2-yr. light, \$7.50 per 10; 1-yr. heavy, \$6.50 per 10; 1-yr. light, \$5.50 per 10; bearing size, \$10.00 each. All Raspberries, No. 1 heavy, \$40.00 per 1000, 10 per cent discount for cash on all stock. All plants that die, replaced at ½ price.

SCHWAB FRUIT FARM & NURSERY

220 N. Fifth St. Mankato, Minn.

STRAWBERRY PLANTS.

Doubly inspected. Aroma, Blakemore, Klonik, Missionary, Dunlap, Klonmore, Gem Supreme, \$5.00 per 1000; Gem Everbearing, \$10.00; Progressive, \$8.00; Tenn. Beauty, \$6.00. Prompt shipment.

TOM RAMSEY

Harrison, Tenn.

STRAWBERRY PLANTS.

All leading Everbearing varieties. Northern-grown, No. 1 plants.	Per 1000
Streamliner	\$20.00
Minnesota 1166	15.00
Brune's Marvel	12.50
Twentieth Century	45.00
Superfection	20.00
Gem	16.00
Newburgh Raspberry plants, \$10.00 per 1000. Discount given on large orders.	

McNEAL BERRY NURSERY

Hamilton, Mont.

STRAWBERRY PLANTS — Doubly inspected, northern-grown. Dunlap, Beaver, Blakemore, \$7.50 per 1000; 10,000 up, \$7.00 per 1000. Premier, Giant Robinson, Bellflower, \$9.00 per 1000; 10,000 up, \$8.00 per 1000. Giant Gem Streamliner, Minnesota 1166 everbearing, \$16.00 per 1000; 10,000 up, \$15.00 per 1000. These are young, healthy, fresh-dug plants, guaranteed to reach you in good growing condition. IOWA NURSERY, Farmington, Iowa.

RASPBERRY PLANTS.

Latham red.	Per 1000
No. 1 suckers	\$30.00
1-yr. transplants (sold out)	
2-yr. transplants	50.00
No. 2 suckers	18.00
Bristol, black, tips	35.00
Cumberland, Logan, Morrison, black, tips	20.00

C. H. BENEDICT, Grand Junction, Mich.

GEM EVERBEARING STRAWBERRY PLANTS.

Streamliner, Minn. 1166 and Brune's Marvel. Guaranteed true-to-name and free from mixed varieties. Choice northern-grown plants. Booking orders for spring delivery, 10 per cent discount on orders of \$60.00 or more. Gem, \$10.00 per 1000.

Latham and Newburgh Raspberry plants, \$30.00 per 1000.

DAVIS PLANT FARM

Hamilton, Mont.

DURHAM EVERBEARING RASPBERRY — New introduction. New Hampshire agricultural experiment station; earliest good fall bearer available today. Bears on new canes here starting September 1. Bears first year. Ideal for home garden and roadside stand trade. Stock very limited. No. 1 suckers, \$12.00 per 100; small suckers, \$8.00 per 100. PINE-CROFT NURSERIES, Exeter, N. H.

STRAWBERRY PLANTS — State certified, twice inspected. Robinson, \$9.00 per 1000; Premier, Catskill, Fairfax and the new Fairland, \$11.00 per 1000. Everbearing varieties: The new Superfection, \$22.00 per 1000; Streamliner, \$15.00 per 1000; Minn. 1166, Mastodon and Gem, \$12.00 per 1000.

GATEWAY NURSERY

New Buffalo, Mich.

STRAWBERRY PLANTS — All leading everbearing varieties. Northern-grown, No. 1 plants: Gem, Streamliner, Minnesota 1166, Utah Centennial, New Progressive, Superfection, Twentieth Century and Brune's Marvel. Write for wholesale price list.

MCNEAL BERRY NURSERY

Hamilton, Mont.

STRAWBERRY PLANTS. Doubly Inspected. Per 1000
New Superfection Everbearing.....\$20.00
Streamliner Everbearing.....16.00
New Arrowhead.....9.00
Dunlap.....7.50
500 plants at 1000 rate.

DOLLAR NURSERY, Bloomfield, Iowa.

RASPBERRIES, No. 1 Morrison tips. \$30.00 per 1000.

VICTORIA RHUBARB, 1 to 1½ ins., \$30.00 per 1000; ¾ to 1-in., \$20.00 per 1000; ½ to ¾-in., \$15.00 per 1000. Any time; tips early spring. Can ship rhubarb any time; tips early spring.

ASHCRAFT NURSERY

Copemish, Mich.

STRAWBERRY PLANTS — Northern-grown, spring-dug. Dunlap, \$8.00 per 1000; Robinson, \$9.00 per 1000; Premier, Fairfax, Catskill, \$11.00 per 1000; Everbearing Streamliner, \$15.00 per 1000; Gem, \$12.00 per 1000 and Minn. 1166, \$14.00 per 1000. Order early. PERCY'S STRAWBERRY NURSERY, Kalamazoo, Mich.

STRAWBERRY PLANTS.

Aroma, Blakemore, Premier, Gem Everbearing, Mastodon Everbearing, Progressive Everbearing. All at \$5.00 per 1000.

SAM PACK NURSERIES

Route 5 Smithville, Tenn.

Cumberland and New Logan	Per 1000
Raspberry Plants	\$25.00
Robinson Strawberry Plants	8.00

Extra-fine plants after best growing season in many years.

ALMENA NURSERY

Paw Paw, Mich.

CULTIVATED BLUEBERRIES — Compare our prices with others. 4-yr., 4 ft., \$45.00 per 100, 3-yr., 3 ft., \$38.00 per 100, 2-yr., 18 to 24 ins., \$32.00 per 100. Varieties: Rancocas, Rubel, Jersey. Also new Weymouth and Burlington. WARREN SHINN'S NURSERY, Woodbury, N. J.

STRAWBERRY PLANTS.

Northern-grown; doubly inspected.

Gem Everbearing	Per 1000
Premier	\$12.00

R. T. 6 Kalamazoo, Mich.

ROCKHILL EVERBEARING STRAWBERRY PLANTS — Generous-size divisions. No packing charge. Priced \$5.00 per 1000, F.O.B. Silverton. Terms: Cash with order.

ABQUA GARDENS Rt. 2, Box 159 Silverton, Ore.

RASPBERRIES — No. 1 Cumberland tips. \$3.00 per 100, \$24.00 per 1000.

BLUE RIDGE GARDENS Roanoke, Va.

Thornless Boysenberry Plants, \$35.00 per 1000; \$5.00 per 100. Wholesale, WARREN SHINN'S NURSERY, Woodbury, N. J.

BULBS AND TUBERS

MICHIGAN-GROWN GLADS.

No. 1	No. 2	No. 3
\$20.00	\$16.00	\$12.50
19.00	15.00	12.00

Picardy Gardenia Betty Nuthall Flaming Sword Marg. Beaton Dr. F. E. Bennett Shirley Temple Blue Beauty E. C. Cole Maid of Orleans Miss Bloomington Rosa Van Lima Snow Princess Valeria Bird's Eye Gold Dust New Europe Purple Supreme Anna Mae Mother Kadel Red Charm Token Rapture Rewi Fallu Stoplight King Lear C. Koehl Lavender Ruffles Vagabond Prince Parterre Spotlight Leading Lady Beacon Yellow Emperor Phyllis McQuiston Black Opal Corona Mixed

20.00	17.00	14.00
24.00	20.00	16.00
28.00	24.00	20.00
32.00	28.00	24.00
36.00	32.00	28.00
40.00	36.00	32.00
44.00	40.00	36.00
48.00	44.00	40.00
52.00	48.00	44.00
56.00	52.00	48.00
60.00	56.00	52.00
64.00	60.00	56.00
68.00	64.00	60.00
72.00	68.00	64.00
76.00	72.00	68.00
80.00	76.00	72.00
84.00	80.00	76.00
88.00	84.00	80.00
92.00	88.00	84.00
96.00	92.00	88.00
100.00	96.00	92.00

Cash or C.O.D.

HOWARD STREET PANTRY GARDENS

Kalamazoo 99, Mich.

BELGIAN IMPORTED DOUBLE BEGONIAS.

All double, camellia-flowered; colors as follows: Red, yellow, pink, salmon, orange, copper, scarlet, rose.

Sizes:	Per 100
1½ to 1½-inch.	\$ 6.00
1½ to 2-inch.	10.00
2 to 3-inch.	15.00

Cash or C.O.D.

MONARCH PLANT FARMS

Kalamazoo 99, Mich.

JUMBO GLADIOLUS BULBS.

For retail counter sales. The kind folks like to buy. Jumbo size, 2 to 3 ins. across, 20 popular commercial varieties in mixture, \$20.00 per 1000, F.O.B. here. Cash or 25 per cent down, balance C.O.D. Shipment now or later, as desired. \$50 or more at 1000 rate.

If interested in buying planting stock for lining out named varieties in any size, ask for our price list.

BENNINGTON'S NURSERY GARDENS

Laurel City, Iowa

SELECTED CANNAS, 2 to 5 eyes.	Per 100 Per 1000	
The President	\$5.00	\$40.00
Red King Humbert	5.00	40.00
Yellow King Humbert	5.00	40.00
Rosamond Cole	5.00	40.00
City of Portland	5.00	40.00
Extra-fine mixed	5.50	45.00

Cash or C.O.D.

MONARCH PLANT FARMS

Kalamazoo 99, Mich.

Lock Box 826

EVERGREENS—Continued

LINING-OUT STOCK.	
Seedlings	Per 100 Per 1000
Fagus sylvatica, 8 to 10 ins....	\$ 8.50 \$ 75.00
Fagus sylvatica purpurea,	
8 to 10 ins....	15.00
Juniperus virginiana, 2 to 4 ins. 5.00	40.00
Laburnum anagyroides,	
to 10 ins....	3.50
Magnolia glauca, 4 ins....	30.00
Pinus mugo, 6 to 8 ins....	4.00
Pinus mugo, 8 to 10 ins....	4.00
Pinus nigra austriaca, 4 to 6 ins. 6.00	60.00
Pinus strobus, 4 to 6 ins....	4.00
Pinus sylvestris, 4 to 6 ins....	4.00
Thuya occidentalis, 4 to 6 ins....	4.50
Thuya orientalis (understock),	
8 to 10 ins. tr....	7.50
Tsuga canadensis,	
6 to 8 ins. tr....	12.00
Twice transplanted cuttings from beds	100.00
Per 10 Per 1000	
Juniperus communis hibernica....	\$ 2.25 \$ 20.00
Juniperus communis	
suecica nana....	2.25 20.00
Taxus media, spreading....	2.75
Taxus media hatfieldi....	2.75
Taxus media hicksii....	2.75
Taxus media Moon's columnaris....	2.75
Taxus media ovata....	2.75
Taxus media Vermeulen....	2.75
Well established cuttings from 2½-in. pots	25.00
Per 10 Per 1000	
Andromeda japonica....	\$ 1.75 \$ 15.00
Eurycoma longifolia....	1.75
Juniperus communis hibernica....	1.75
Juniperus communis	
suecica nana....	1.75
Juniperus depressa plumosa....	1.75
Taxus baccata repandens....	1.75
Taxus cuspidata....	1.75
Taxus cuspidata nana....	1.75
Taxus media brownii....	1.75
Taxus media henryi....	1.75
Taxus media hicksii....	1.75
Taxus media Moon's columnaris....	1.75
Taxus media ovata....	1.75
Taxus media Vermeulen....	1.75
Thuya occidentalis globosa....	1.75
Thuya occidentalis globosa novum....	1.75
HESS' NURSERIES	
Mountain View, N. J.	

ROOTED CUTTINGS.	
	Per 100 Per 1000
Taxus baccata repandens....	\$ 10.50 \$ 100.00
Taxus brevifolia....	8.00 75.00
Taxus cuspidata....	6.00 60.00
Taxus media upright....	7.00 60.00
Taxus media, upright	
slow grower....	7.50 70.00
Taxus Moon's columnaris....	7.00 60.00
Taxus hicksii....	7.00 60.00
Ilex crenata....	7.00 60.00
Ilex crenata convexa....	7.00 60.00
Juniperus pfitzeriana....	7.50 70.00
ONE-YEAR, IN BEDS.	
Taxus brevifolia....	12.00 110.00
Taxus cuspidata....	11.00 100.00
Taxus cuspidata densa....	11.00 100.00
Taxus crenata....	10.00 90.00
ONE-YEAR, 2½-IN. ROSE POTS.	
Taxus cuspidata....	16.00 155.00
Taxus intermedia....	16.00 155.00
FIELD-GROWN.	
Taxus int., 3-yr. sheared,	
hvy. root....	20.00
Taxus cuspidata, 4-yr. sheared,	
hvy. root....	50.00 450.00
Samples on request, packing free for cash with order, 25 per cent deposit required with all orders.	

LEHIGH VALLEY NURSERIES, Inc.

1745 Linden St., Bethlehem, Pa.

SEEDLINGS FOR SPRING.	
Per	Per
Scotch Pine, 2-yr., 2 to 3 ins....	\$ 2.00 \$ 15.00
Scotch Pine, 2-yr., 3 to 8 ins....	4.00 25.00
Red Pine, 3-yr., 4 to 8 ins....	5.00 35.00
Red Pine, 2-yr., 2 to 5 ins....	4.00 25.00
Austrian Pine, 2-yr., 3 to 6 ins....	4.00 25.00
Austrian Pine, 2-yr., 2 to 3 ins....	2.50 15.00
White Pine, 2-yr., 2 to 4 ins....	3.00 20.00
Banks Pine, 3-yr., 9 to 15 ins....	5.00 30.00
Banks Pine, 2-yr., 5 to 8 ins....	4.00 25.00
Mugho Pine, 4-yr., 4 to 8 ins....	5.00 25.00
Norway Spruce, 3-yr., 4 to 8 ins....	4.00 25.00
Norway Spruce, 2-yr., 2 to 5 ins....	3.00 20.00
Norway Spruce, 2-yr., 2 to 4 ins....	2.50 20.00
White Spruce, 2-yr., 2 to 5 ins....	3.00 20.00
White Spruce, 2-yr., 2 to 4 ins....	2.50 20.00
Colo. Blue Spruce, 4-yr.,	
4 to 8 ins....	6.00 40.00
Colo. Blue Spruce, 3-yr.,	
2 to 4 ins....	5.00 35.00
Colo. Blue Spruce, 2-yr.,	
3 to 4 ins....	3.50 25.00
Green leaved Barber,	
3-yr., 8 to 9 ins....	3.50 20.00
Arborvitae, 2-yr., 2 to 4 ins....	3.00 20.00
Cash, or 25 per cent deposit with order, balance C.O.D., 5 per cent discount on quantities of 25,000.	

SAM DIBLE NURSERY Sheolota, Pa.

KALMIA LATIFOLIA — Specimen landscape plants fully selected for density, 2 to 3 ft. \$1.00 each.

SELECTED RHODODENDRON MAXIMUM — 2 to 3 ft. \$3.00 each.

WILLIAM H. JONES Berlin Rd. Laurel Springs, N. J.

HEAVY LINERS FOR SPRING DELIVERY.

Per 100

1000 Pyramidal Arborvitae,	
12 to 15 ins. TTT....	\$ 50.00
1000 Andorra Juniper,	
9 to 12 ins. TT....	25.00
2200 Andorra Juniper,	
8 to 10 ins. T....	15.00
700 Woodward Globe Arborvitae,	
8 to 10 ins. TT....	30.00
650 Juniperus glauca hetzii,	
12 to 15 ins. TTT....	60.00
1000 Taxus cuspidata,	
9 to 12 ins. TT....	35.00
750 Ilex rotundifolia,	
8 to 12 ins. TTT....	25.00
2000 Canadian Hemlock,	
9 to 12 ins. TT....	25.00
2000 Canadian Hemlock,	
12 to 15 ins. TT....	35.00
9000 Juniperus horizontalis,	
8 to 12 ins. TT....	15.00
1000 Ilex convexa, 8 to 10 ins. TT....	20.00
All stock heavy, field-grown. Free packing. Cash with order, please. Ask for our complete price list. Mail us your want list for special quotation.	

WHERRY'S NURSERIES, St. Marys, W. Va.

LINERS.
Spring Delivery.

Each	
Azalea Mollis, cream, branched, XX,	
4 to 6 ins. fd....	\$ 0.20
Camellia, Herme, 2-in. pot....	.25
Camellia, Cheerful, 2½-in. pot....	.25
Daphne, Odora, X	
Odora, X	.15
Heather, Bruckenthalia, XX, 2 to 4 ins. frame	.12
Med. White, XX, 2 to 4 ins. frame....	.17
Mrs. Maxwell, XX, 2 to 4 ins. frame....	.17
St. Kavera, XX, 2 to 4 ins. frame....	.15
Carna, X, flat....	.12
Mediterranean Hybrid, X, flat....	.10
VeVilla, X, flat....	.12
Springwood White, X, flat....	.12
Thuya woodwardii, X, frame....	.12
Ilex pyramidalis, X, frame....	.17
Viburnum burkwoodii, X, 4 to 6 ins....	.15
Lithospermum (Heavenly Blue) X, p....	.12
F.O.B. Nursery, packed free, C.O.D.	

FOUR STAR NURSERY
Hi-way 99 at No. 212th
Rt. 3, Box 3529 Edmonds, Wash.LINING-OUT STOCK.
ROOTED CUTTINGS.

Each	
Taxus cuspidata, 4 to 6 ins....	
Taxus cuspidata, 6 to 8 ins....	.08
Taxus cuspidata, 4 to 6 ins....	.08
Taxus hicksii, 6 to 10 ins....	.10
Juniperus pfitzeriana, 4 to 6 ins....	.12
Thuya occidentalis pyramidalis,	
4 to 6 ins....	.08
Thuya occidentalis woodwardii, 4 to 6 ins....	.08
2½-IN. POTS.	
Taxus cuspidata, 4 to 6 ins....	.15
Taxus cuspidata, 6 to 8 ins....	.17
Taxus hicksii, 4 to 6 ins....	.15
Taxus hicksii, 6 to 10 ins....	.17
Juniperus pfitzeriana, 4 to 6 ins....	.18
Thuya occidentalis pyramidalis,	
4 to 6 ins....	.15
Thuya occidentalis woodwardii, 4 to 6 ins....	.15
PEARS.	
Bartlett (well branched), 9/16-in....	.50
Bartlett (well branched), 7/16-in....	.40
DRAKE'S NURSERIES	
4342 Branch Rd. Flint, Mich.	

LINING-OUT STOCK.

ARBORVITAE Per 100 Per 1000

Chinese Pyramid, 1-1, 3 to 8 ins.	\$ 5.00
Dwarf Oriental, 1-1, 3 to 8 ins.	5.00
Chinese, 1-1, 3 to 8 ins....	4.00
Chinese, 2-2, 3 to 6 ins....	3.00
SPRUCE.	

Norway, 2-0, 2 to 6 ins....	2.50
Norway, 2-1, 2 to 6 ins....	4.00
Black Hills, 2-1, 2 to 4 ins....	4.00
Black Hills, 2-1, 2 to 6 ins....	5.00
Colorado Blue, 2-1, 2 to 3 ins....	4.00
Colorado Blue, 3-1, 3 to 6 ins....	5.50
Black, 2-1, 2 to 6 ins....	4.00
Black, 3-1, 2 to 10 ins....	5.00

PINE.

Mugho, 2-0, 2 to 4 ins....

Table Mountain, 1-0, 2 to 4 ins. 2.50

Scotch, 2-6, 3 to 8 ins....

Terms, 2 per cent for cash with order.

JOHN G. ZELENKA R. 2, Box 293 Grand Haven, Mich.

EXTRA-HEAVY SPECIMEN EVERGREENS.

Each per 100

Taxus brownii, 15 to 18 ins....	\$ 2.75
Taxus brownii, 18 to 24 ins....	3.75
Taxus hicksii, 18 to 24 ins....	3.00
Taxus hicksii, 24 to 30 ins....	4.00
We are proud to sell evergreens you can sell with pride. Cash, please.	

THORNTON NURSERIES Conneaut Lake, Pa.

HEMLOCKS.

Nice 2-yr. transplants.

Taxus canadensis. Canadian Hemlock.

Each Each

2 to 4 ins....	\$ 0.05
4 to 6 ins....	.075
6 to 8 ins....	.15

Write for other bargains in liners. 6 per cent discount for cash.

BOYD NURSERY CO.

P.O. Drawer 71 McMinnville, Tenn.

LINING-OUT STOCK.

Field-grown.

6 to 8 ins. \$12.50 per 100.

8 to 12 ins. \$15.00 per 100.

Juniperus communis (English).

Juniperus communis ashfordii.

Juniperus communis cracovia (Polish).

Juniperus communis depressa.

Juniperus communis fastigata (Improved Irish).

Juniperus communis hibernica (Irish).

Juniperus communis horizontalis (Prostrate).

Juniperus communis horizontalis pluma (Blue Creeper).

Juniperus communis sabina (Savin).

Juniperus communis tamariscifolia.

Juniperus communis Von Ehorn.

Juniperus virginiana kosteri.

Juniperus virginiana.

Cash, please. No packing charge.

BYERS NURSERY CO.

Chase, Ala.

LINING-OUT STOCK. Per 100

1500 Taxus cuspidata, XX, 12 ins. heavy

2000 Thuja elegans, 2½-in. pots.

2000 Thuja hoveyi, XX, 9 ins.

2000 Retinospora plumosa, XX, 12 ins.

75 Retinospora plumosa aurea, XX, 12 ins.

12 ins. 25.00

600 Juniperus, Waukegan, XX, 9 to 12 ins.

12 ins. 25.00

3000 Juniperus pfitzeriana, 2½-in. pots.

(Above Pfitzer now growing in greenhouse.)

300 Juniperus pfitzeriana, XX, 9 to 12 ins.

9 to 9 ins. 25.00

300 Juniperus pfitzeriana, XX, 9 ins.

9 to 12 ins. 25.00

All above stock shipped bare-root and packed in moss.

Cash with order, please. Packing free.

DAMASCUS NURSERIES

Damascus, Ohio

LINERS WITH QUALITY.

The plants listed below are grown in 2½-in. inch rather than 2¼-inch pots. They have been growing in the pot plenty long to have a nice root growth and make transplanting most successful. These are outdoor bed-grown plants ready for sale.

LINING-OUT STOCK. Per 100

5000 Irish Juniper

2000 Kiyonoi Juniper

2000 Mahonia bealei

1500

1500

1500

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1500

NORTHERN-GROWN LINING-OUT STOCK. Per 100
Norway Spruce, 3-yr. S, 4 to 10 ins.... \$ 5.00
Spreading Yew, 1-yr. T,
4 to 6 ins..... 15.00

2-YR. SEEDLINGS.

Per 100 Per 1000
Scotch Pine, 3 to 6 ins..... \$2.00 \$25.00
Norway Spruce, 2 to 4 ins.... 3.00 25.00
Black Hills Spruce, 2 to 4 ins.... 3.00 25.00
Mugo Pine, 2 to 4 ins..... 3.00 25.00

Packing free. Cash with order, please.

ARTHUR CASH NURSERY

Angola, N. Y.

JUNIPERUS HETZI.	Each
1-yr., 5 to 8 ins.....	\$0.12
1-yr., 8 to 12 ins.....	.20
LONICERA ZABELLI.	
Lining-out.....	.05
12 to 18 ins.....	.15
18 to 24 ins.....	.20
2 to 3 ft.....	.25

PHILADELPHUS VIRGINALIS.

Lining-out.....	.16
12 to 18 ins.....	.20
18 to 24 ins.....	.30

BALCOM NURSERY Kokomo, Ind.

LINING-OUT STOCK.

1-yr., hedged.....	Per 100 Per 1000
Taxus hicksii.....	\$15.00 \$125.00
Taxus cuspidata.....	15.00 125.00
Taxus baccata.....	17.50 150.00
Taxus brevifolia.....	20.00 200.00
Tsuga canadensis.....	
2-yr. tr. 4 to 6 ins.....	7.00 60.00
3-yr. tr. 6 to 9 ins.....	11.00 100.00
4-yr. tr. 9 to 12 ins.....	16.00 150.00

Complete list of liners on request.

VERKADE'S NURSERIES Wayne, N. J.

POTTED LINERS—Ready for field or beds, 2½-in. to 2½-in. *Araeoles*, *Himodiodia*, *Pink Pearl*, *Leucophaea Alba*, *Blue*, *Buxus*, *semperf*irensis and *sufruticosa*, 15c. *Berberis*, *gargantiana*, 12½c. *English Ivy*, 10c. *Gardenia*, 12½c., *Ilex burfordii* 3-in., 25c. *Ilex cassine*, 15c. *Juniperus*, *Andorra*, *communis*, *chin. stricta*, *pitisperana*, *sabina*, *sylvestris*, von *Ehron*, 15c. *Nandina*, 10c. *Raphiolepis*, 12½c. *Tuja*, *bakeri*, *Bonita*, 18c. *Viburnum tinus*, 18c.

BIRMINGHAM NURSERIES

Birmingham, Ala.

SPECIAL COMBINATION OFFER.
Heavy, field-grown, TT stock.
25 Upright Yew, seed-grown, 12 to 15 ins.
25 Spreading Yew, 12 to 15 ins.
25 Halloran Yew, 12 to 15 ins.
25 Hetz Blue Juniper, 8 to 10 ins.
25 Andorra Juniper, 9 to 12 ins.

125 trees. Special price, \$65.00.

Cash with order, please.

This collection cannot be broken.

VILLA PARK EVERGREEN CO., Villa Park, Ill.

EVERGREEN SEEDLINGS. Per 100 Per 1000
Norway Spruce, 3-yr., 6 to 9 ins. \$5.00 \$40.00
Scotch Pine, 2-yr., 6 to 9 ins.... 4.50 35.00

Cash with order, or 25 per cent deposit and balance express collect. All orders subject to previous sales.

STRICK & ALLYN CO., Elmira, N. Y.

Route 1

TAXUS, LARGE LINERS.

FIELD-GROWN TRANSPLANTS.

From selected cuttings, best strain.

Taxus cuspidata capitata Per 100 Per 1000

12 to 18 ins..... \$60.00 \$550.00

Also B&B Taxus, upright and spreading, in landscape sizes for Middle West shipment in carload lots.

BULK'S NURSERIES, Inc., Babylon, L.I., N.Y.

LINING-OUT STOCK.

2-yr. seedlings Per 100

Scotch Pine, 4 to 6 ins..... \$3.00

Norway Spruce, 2 to 4 ins..... 3.00

Mugo Pine, 2 to 4 ins..... 3.00

Packing free. Cash with order, please.

CLARENCE KONARSKE NURSERY

24638 West Rd., Rt. 2 Flat Rock, Mich.

BUXUS SUFFruticosa—English Boxwood, Per 100

4 to 6 ins..... \$15.00

6 to 8 ins..... 22.50

8 to 10 ins..... 35.00

Compact plants, Virginia grown.

GULF STREAM NURSERY, Inc., Wachapreague, Va.

HEMLOCK LINERS.

Strong, 3-yr.-old plants, 10 to 12 ins., pot and bed-grown in 10-in. Head root systems, \$27.50 per 100, \$25.00 per 1000.

TRITSCHLER'S GREENHOUSES

4425 West Lawn Drive Nashville 9, Tenn.

DOUGLAS FIRS.

8 to 12-inch Douglas Firs, \$7.50 per 100, \$60.00 per 1000.

COASTAL GARDENS Sheridan, Ore.

Transplanted TAXUS cuttings, 6 to 8 ins.

Taxus brownii, *wymani*, *hicksii*, *hatfieldii*, *cuspidata* and *intermedia*, \$20.00 per 100.

SINGER GARDENS Stamping Ground, Ky.

FRUIT TREES

CHERRIES—Good height—well branched.

MONTMORENCY.

Size 9½-in., 60c ea. Size 11½-in., 70c ea.

BENTON COUNTY NURSERY CO., Inc., Rogers, Ark.

The World's Largest Pecan Nursery, Lumberton, Miss.

TOP-QUALITY TREES AT OUR LOW PRICES MEAN BIG SAVINGS.

We have several hundred Apple in surplus, 1-yr. white McIntosh, Early Harvest, Jonathan, Yellow Transparent, Winesap, Yellow Delicious, Stayman, Dhl, Red Delicious: 18 to 24 ins., 8c; 2 to 3 ft., 10c; 3 to 4 ft., 15c each in 100 lots.

A few thousand June Bud Peach, ideal for liners or for retail trade, Golden Jubilee, Elberta, Halehaven: 12 to 18 ins., 7c; 18 to 24 ins., 9c; 2 to 3 ft., 12c; 3 to 4 ft., 15c each in 100 lots.

Several hundred Plums, 1-yr. June buds, Red June, Bruce: 18 to 24 ins., 10c; 2 to 3 ft., 15c; 3 to 4 ft., 20c each in 100 lots. Order in multiples of 100.

Lining-out Pears, whips, Kieffer, Garber: 12 to 18 ins., 15c; 18 to 24 ins., 20c; 2 to 3 ft., 25c each in 100 lots.

Send cash with order. No charge for packing.

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

A few thousand 3-year-old Apple: Jonathan, Double Red Jonathan, Yellow Delicious, Red Delicious, York, Turley, Wealthy, Rome Beauty, Double Red Rome Beauty, Grimes: 11½-in., 35c; 1 to 1½-in., 75c; 1½ to 2½-in., \$1.15 each in 1000 lots.

5000 2-yr. Apple, leading varieties, 5½-in., 15c; 7½-in., 20c, 9½-in., 25c each.

A few hundred Pear: Seckel, Duchess, Bartlett—1-in., 8c; 1½-in., \$1.25 each, in 100 lots.

5000 Amur River North Privet, cut back, many branches, 3 to 4 ft., 9½c; 3 to 4 ft., 13c; 4 to 5 ft., 20c each in 1000 lots.

500 Hansen Dwarf Cherry, 3-yr., heavy, 3 to 4 ft., 30c; 4 to 5 ft., 60c each, in 1000 lots.

1000 American Ash, 1½ to 2-in., \$1.50; 2 to 2½-in., \$2.25 each.

EGYPTIAN NURSERY & LANDSCAPE CO. Farina, Ill.**PEAR TREES.**

Kieffer, Douglas, Lincoln, Richard Peters, Pound, Smith's Hybrid and Patten.

Each

2 to 3 ft.....	\$0.25
3 to 4 ft.....	.30
4 to 5 ft.....	.40
5 to 6 ft.....	.65
All above budded on Calleryana rootstocks and branched.....	

APRICOTS.

Hungarian, Moorpark, Early Golden and Little Sam.

Each

2 to 3 ft.....	\$0.25
3 to 4 ft.....	.35
4 to 5 ft.....	.55
5 to 6 ft.....	.45
All branched. Large branched, 75c each.	

PACKING.**FITZGERALD'S NURSERY,** Stephenville, Texas**REDUCED PRICES.**

For first-quality stock.

Apple trees. Per 100 Per 1000

3-yr., 4 to 5 ft..... \$20.00 \$175.00

3-yr., 5 to 6 ft..... 25.00 225.00

This block of apple trees consists of about 5,000 trees, well branched and free from disease.

Chinese Chestnut trees, transplanted in the spring of 1948 to the field, 1 to 2 ft., \$100 per 100; 2 to 3 ft., \$60.00 per 100; 3 to 4 ft., \$70.00 per 100; 4 to 5 ft., \$80.00 per 100. About 7,000 trees.

Free boxing and packing. If you come with your truck we will take off what it would cost us to pack.

HOME NURSERY CO. Fort Gay, W. Va.**PECAN TREES.**

Pecan trees grown on our better rootstocks.

Carefully hand-dug, stake-trained trees. Sure to please.

Each per 100

2 to 3 ft.....	\$1.00	\$0.90
3 to 4 ft.....	1.20	1.10
4 to 5 ft.....	1.40	1.30

Varieties: Burkett and Stuart in 2 to 3-ft., 3 to 4-ft. sizes only. Meyhan and Schley, all sizes. Prices F.O.B., Goldthwaite, Tex. Write for complete list of new low prices on fruit and pecan trees.

COCKRELL'S RIVERSIDE NURSERY

Goldthwaite, Texas

AN OPPORTUNITY in Tane-Nashi Persimmons! Mention American Nurseryman in your order and get 1000-rate price on order of 50 and up. Our top-quality trees.

Per 100 Per 1000

2 to 3 ft.....	\$55.00	\$500.00
3 to 4 ft.....	70.00	650.00
4 to 5 ft.....	90.00	850.00

Cash from new customers, please.

GLEN SAINT MARY NURSERIES CO. Glen Saint Mary, Fla.**APPLE TREES.** Each

3-yr. good caliper. Each per 100

3 to 4 ft.....	\$0.20	\$0.15
4 to 5 ft.....	.25	.20
5 to 6 ft.....	.35	.30
6 to 8 ft.....	.40	.35

Red Delicious, Yellow Delicious, Jonathan, Yellow Transparent, Stayman.

BENTON COUNTY NURSERY CO., Inc. Rogers, Ark.

Grafted and budded papershell pecan trees, peach, apple, plum, fig and famous blight-proof pear trees and Concord and Niagara grapes. Write for free new catalog.

BASS PEACH CO.

The World's Largest Pecan Nursery, Lumberton, Miss.

GRAFTING WOOD

APPLE GRAFTWOOD in the following varieties at \$1.00 for wood for 100 grafts; \$8.50 per 1000 when furnished in lots of not less than 250 of any one variety.

Delicious M. B. Twig

Double Red Jonathan Rome Beauty

Double Red Rome Smokehouse

Double Red Stayman Stayman

Early Harvest Turley

Early Red Bird Winesap

Grimes Golden Winter Banana

Lowry Yellow Transparent

Maiden Blush York Imperial

WADEN Blush Red McIntosh

WAYNESBORO NURSERIES Waynesboro, Virginia

Waynesboro, Virginia

GROUND COVERS

VINCA MINOR—Hardy Myrtle (Periwinkle).

For immediate or spring delivery. Individually made up, long canes up to 18 ins. in large clumps, 15 to 30 leads. Very thirsty, prompt shipment, \$37.00 per 1000 clumps.

Any quantity, 2 per cent cash discount if check accompanies order.

H. C. WAUGH

736 Green St. Marietta, Ohio

EUONYMUS RADICANS VEGETUS.

Per 100 Per 1000

Strong rooted cuttings. \$5.00 \$75.00

PLANE-VIEW NURSERY

Newport, R. I.

HARDY PLANTS

NEW SUMMER-FLOWERING MUMS.

Very hardy—easy to grow—clean.

Large, perfectly formed flowers from early August to frost.

Excellent for cutting and corsages.

DEAN KAY SERIES.

Rooted cuttings Pot plants

per 100 per 12 per 100

DEAN KAY IMPROVED.

Rose-pink \$ 6.00 \$1.75 \$11.00

DEAN LADD.

Reddish-bronze 6.00 1.75 11.00

MY LADY. Orange-yellow 8.00 2.25 13.00

UNIV. OF MINNESOTA VARIETIES.

AURORA. Dragon's blood-red 6.00 1.75 11.00

BRILLIANT. Brazil-red 12.00 2.75 17.00

BUTTERBALL.

Apricot-salmon 6.00 1.75 11.00

CHIPPEWA. Aster-purple 6.00 1.75 11.00

DEE DEE AHRENS.

Pure white 8.00 2.25 13.00

DR. LONGLEY NEW.

Soft amaranth-pink 20.00 4.00 25.00

GLACIER. Pure white 6.00 1.75 11.00

MAROON 'N GOLD.

Red and golden 6.00 1.75 11.00

MOONLIGHT. NEW.

Large white 20.00 4.00 25.00

REDDGOLD.

Scarlet pom-type 6.00 1.75 11.00

REDFAWN. Bright red 6.00 1.75 11.00

SILVER PINK. Silver-pink 12.00 2.75 17.00

SUNRED. Bright red 6.00 1.75 11.00

VIOLET. Amaranth-purple 8.00 2.25 13.00

WATERLILY. White 6.00 1.75 11.00

UNIV. OF CHICAGO VARIETIES.

Chrome-yellow 6.00 1.75 11.00

HARBINGER. Bronze 6.00 1.75 11.00

OLIVE LONGLAND.

Apricot-salmon 6.00 1.75 11.00

ROBERT BRYDON.

Garnet-red 6.00 1.75 11.00

UNIV. OF NEW HAMPSHIRE MUMS.

NASHU

HARDY PLANTS—Continued

HARDY PERENNIALS.			
Strong, rooted divisions, early spring shipment.			
300 at 1000 rate.	Per 100	1000	
<i>Anthemis</i> Moonlight	\$8.00	\$75.00	
<i>Hardy Aster</i>			
Beechwood Challenger, bright	6.00	50.00	
Mt. Evans, good white	6.00	50.00	
Sunset Pink, lavender-pink	6.00	50.00	
<i>Helenium</i> Gartenonne, golden-yellow	8.00	75.00	
<i>Polemonium</i> Blue Pearl	8.00	75.00	
<i>Lychins</i> viscaria florepleno	8.00	75.00	
<i>Chrysanthemum</i>			
Algonquin, early dbl. yellow	6.00	50.00	
Autumn Lights, copper-bronze	6.00	50.00	
Little Goblin, bronze pompon	6.00	50.00	
Ruby Pompon, good red pompon	6.00	50.00	
Little Goblin, bronze pompon	6.00	50.00	
PLANE VIEW NURSERY	Newport, R. I.		

THE DELPHINIUM OF TOMORROW.

LYONDEL GIANT HYBRIDS.

Massive Spikes-Stately-Majestic-Colorful. A new strain especially selected for its large double flowers and wide range of beautiful colors. Doubles, semidoubles, singles. Extremely hardy.

Large field-grown plants, \$4.00 per doz.; \$25.00 per 100.

Seeds from plants grown from originator's seeds, \$6.00 per $\frac{1}{4}$ -oz.; \$11.00 per $\frac{1}{2}$ -oz.; \$20.00 per oz.

CORLISS BROS., Inc., NURSERIES Reynard St. Gloucester, Mass.

HEAVY, 1-YR., FIELD-GROWN PLANTS.

	Per 100	1000
Carnation Grenadin, mixed	\$3.00	\$27.00
Carnation Grenadin, red or pink	3.50	32.00
Carnation Grenadin, white or yellow	3.50	32.00
Canterbury Bells, mixed, single or double	3.00	...
Canterbury Bells, mixed, cup and saucer	3.50	...
Russell Lupines mixed	5.00	...
NOVOTNY GARDENS	Osage, Iowa	

GYPSOPHILA BRISTOL FAIRY.

We are now booking orders for grafted Gypsophila Bristol Fairy potted plants; shipping will start as soon as the weather permits in the spring, about April 1.

Per doz. Per 100 Per 1000
2 $\frac{1}{2}$ -in. pots \$3.00 \$20.00 \$180.00
25 at 100 rate; 250 at 1000 rate.

BLUE ACRE GARDENS

David L. Guenther
R. R. No. 2, Box 162 Piqua, Ohio

POLEMONIUM BLUE PEARL.

Strong, 1-yr., field-grown, for early spring shipment. 300 at 1000 rate.

\$18.00 per 100; \$150.00 per 1000.

A very fine hardy perennial, sun or shade. Blue flowers on 15-in. stems, May and June. When finished blooming, this Polemonium resolves itself into a 6-in. tuft of dark green, fernlike foliage that gives sales appeal even when not in bloom.

PLANE VIEW NURSERY Newport, R. I.

2 $\frac{1}{2}$ -IN. PERENNIALS — Heavy, greenhouse-grown, hardened in coldframes. Pacific Hybrid Delphiniums in named varieties; Marconi, Diener's Double and Conqueror; Shasta Daisy; Gentian; Campanulas; Robinson's Pyrethrum; 2 $\frac{1}{2}$ -in. Radiant Red Geraniums for bedding. All \$10.00 per 100.

RIEMENSNIER'S GARDENS,

Sandwich, Ill.

BLEEDING HEARTS.

	Per 100
<i>Dicentra spectabilis</i> , 3 to 5-eye	\$25.00
<i>Dicentra spectabilis</i> , 5 to 8-eye and up	35.00
<i>Dicentra spectabilis</i> , 3 to 5-eye and up	35.00
<i>Dicentra eximia</i> , 5 to 8-eye and up	20.00
J. HENDRIKS, Grower Portage, Mich.	

PERENNIALS.

New and Standard Kinds. A most modern and complete selection. New Wholesale List now ready. Send for your Free Copy Now.

CARROLL GARDENS Westminster, Md.

Box 15

HARDY PLANTS.

Select, new and rare varieties, as well as the old timers. Choice alpines for the rock garden. Send for free wholesale list of heavy, field-grown plants.

N. A. HALLAER Webster, N. Y.

BLEEDING HEARTS.

Each *Dicentra spectabilis*, 3 to 5 eyes \$0.25

Dicentra spectabilis, 5 to 8 eyes 35

Well developed, field-grown roots.

CASHAR W. EVANS, Selbyville, Del.

America's Best Source for Hardy Plants Is

THE WAYSIDE GARDENS Mentor, Ohio

Write for Trade List.

Pansies, perennials and rock plants in wide variety. Send for catalog.

PITZONKA'S PANTRY FARM

Bristol, Pa.

HARDWOOD CUTTINGS**HARDWOOD CUTTINGS.**

From Hardy Northern-grown Shrubs and Trees. Delivery now. From our own plantings and blocks checked yearly for accuracy. Cut 7 inches.

Per 1000

Aronia melanocarpa	\$ 4.00
Cornus paniculata	4.00
Malus sylvestris	4.00
lutes (yellow bark)	6.00
amomum	4.00
Forsythia intermedia	3.00
spectabilis	3.00
Elder, Golden	6.00
Cutleaf	4.00
Red-berried	5.00
canadensis	3.00
Hydrangea P.G.	5.00
Hydrangea A.G.	5.00
Privet, Amur	3.00
Regel (true)	3.00
Ibeta	3.00
Honeysuckles morrowii	2.00
bella albida	4.00
bella rosea	3.00
tat, rosea	3.00
korolkowii	3.00
zabelii	5.00
syringantha	4.00
maackii	4.00
Dierilla trifida	4.00
Philadelphus grandiflorus	3.00
Mt. Blanc	3.00
Bouquet Blanc	3.00
lindheimeri	3.00
Physocarpus opul. aureus	3.00
Physocarpus opul. nanus	3.00
Sorbaria sorbifolia	3.00
Spiraea billardi	3.00
freebelli	3.00
thunbergii	3.00
vanhouttei	3.00
trichocarpa	3.00
Snowberry, White	3.00
Lilac, rothomagensis	5.00
Viburnum dentatum	4.00
Poplar, Lombardy	3.00
Willow, Nlobe	3.00
Wisconsin	3.00
Golden	3.00
Pussy	3.00
Packed free. Cash with order, please. Delivery in good order guaranteed.	De-

THE SCOTCH GROVE NURSERY Scotch Grove, Iowa

1-YR. HARDWOOD CUTTINGS.

Per 1000

300 Ampelopsis quinquefolia,	
6 to 18 ins.	\$4.00
300 Ampelopsis engelmanni,	6 to 18 ins.
12 to 24 ins.	4.00
100 Cornus ammon, 12 to 18 ins.	4.00
100 Cornus stolonifera, 12 to 18 ins.	4.00
2100 Lonicera tatarica rosa,	
12 to 18 ins.	5.00
200 Lonicera xylosteum, 12 to 18 ins.	5.00
400 Philadelphus coronarius,	
12 to 24 ins.	4.00
200 Philadelphus grand.	12 to 18 ins.
100 Philadelphus l. Albatre,	
12 to 24 ins.	4.00
100 Philadelphus L. Glazeb.	
12 to 24 ins.	4.00
100 Philadelphus Bouquet Blanc,	
12 to 24 ins.	4.00
100 Rosa multiflora, 2 to 3 ft.	4.00
200 Syringa persica, 2 to 15 ins.	10.00
110 Salix caprea, 2 to 4 ft.	4.00
90 Salix caprea, 4 to 6 ft.	6.00
80 Salix vitellina, 4 to 6 ft.	6.00
1000 rate, $\frac{1}{4}$ each less.	
ADAMS NURSERY INC.	
P. O. Westfield, Mass.	

GENUINE AMUR RIVER NORTH PRIMROSE CUTTINGS — from proven "Mother Blocks" all hand-sorted, same grade as we use, so must be correct. 5,000 for \$11.25. Cash packing free.

ALTA VISTA NURSERIES, Davenport, Iowa

PFITZNER JUNIPER CUTTINGS.

6 to 10 ins. long, not trimmed. Well packed, \$10.00 per 1000. Cash with order.

KRONE'S FLOWER SHOP Fort Smith, Ark.

ROSEBUSHES

OHIO'S OLDEST NURSERY OFFERS YOU A FINE LIST OF HYBRID TEA ROSES.

Per 100 Per 1000

No. 1	\$27.50	\$350.00
No. 1½	32.50	300.00
Ami Quinard (red)	Pink Radiance (pink)	
Etoile de Hollande (red)	Caledonia (white)	
Grenoble (red)	K. A. Viktoria (white)	
Poinsettia (red)	Golden Salmon (yel.)	
Red Radiance (red)	Luxembourg (yellow)	
Editor McFarland (pink)	Roslyn (yellow)	
Montgomery McGredy (orange)	Condesa de Sastago (multicolor)	
American Beauty (red)	Talitha (multicolor)	
Paul's Scarlet (red)	Paul's Scarlet (red)	
Ideal (red)	Golden Salmon	
Pres. Hoover (multicolor)	Triomphe Orleans (cherry-red)	
Sœur Thérèse (yel.)	Sœur Thérèse (yel.)	

Est. 1877 CALL'S NURSERIES, Call Rd., Perry, Ohio

ROSES.

See our display ad on Roses, page 44 of this issue.

OZARKS PLANT FARMS, Inc. Springfield, Mo.

ROSES.

The newest varieties of Roses, Hybrid Teas, Everblooming, Floribundas and Dwarf Poly-anthias in the best novelties.

Large quantities of greenhouse varieties which can be imported to America, remaining under the phytosanitary control for two years.

SPECIAL CONDITIONS FOR THE FIRST TRIAL ORDER.

Price: \$20.00 per 100, budded on Rosa canina, free European port, free packing with order of 5,000 bush roses.

Novelties: \$1.00 each.

30,000 pieces available.

ALFRED LAMESCH (Est. 1871)

22 Rue de Beggen

Dommeldange, Luxembourg

ROSES—Ready for immediate or later delivery. Fine assortment of northern-grown roses, all carefully graded and packed. Never grew a finer, healthier crop. Quality in our first advertisement. Mentor, near Cleveland, most centrally located for the central states, and close to eastern territory. Save long-distance freight charges and shipping risks. Your inquiries will have our prompt attention.

GERARD K. KLYN, Inc. Mentor, Ohio Largest Grower of Northern-grown Roses in the Central States.

ROSES.

ARP-grown with life insurance. Write for trade list while variety assortment is still good. Texas state pecan trees black and English walnut, fig and persimmon. Licensed contract production of All-America roses.

ARP NURSERY CO.

Tyler, Tex.

ROSEBUSHES—2-yr. plants, grown right, graded right, packed right. Very complete assortment varieties. Ask for price list and book your requirements now.

ROSEMONT NURSERIES

D. L. Thompson, Mgr.

Box 839 Tyler, Tex.

MULTIFLORA JAPONICA ROSE STOCK.

Rooted cuttings carefully graded for budding stock. \$35.00 per 1000; \$300.00 per 10,000. Can also be used for hedge planting.

GERARD K. KLYN, Inc. Mentor, Ohio

ROSES.

Well rooted, de-eyed Manetti. 6 to 9 and 9 to 12 in.

PETER J. BOOY ROSE NURSERY San Jacinto, Calif.

SEEDS

SEEDS OF HARDY PLANTS OF PARTICULAR INTEREST TO GROWERS.

Tr. pkt. M.-oz. Alyssum saxatile Silver Queen \$0.20 \$0.30 Anchusa myosotidiflora 45 1.20 Aquilegia l. s. Blue Shades 45 .95 Aquilegia l. s. Pink Shades 45 .95 Aquilegia Crimson Star 45 1.90 Aquilegia White Queen 45 .95 Aquilegia McLaughlin's Hybrids 50 2.00 Aquilegia longissima 45 2.00 Arabis alpina Snow Cap, dwarf 30 .45 Aubrieta Giant Hybrids 45 1.15 Campanula persicifolia Telham Beauty 35 1.00 CARNATIONS.

CHABAUD'S GIANT IMPROVED Elinclant, scarlet, white, yellow, violet, rose Mixed 40 .95

Mixed 35 .85

GRENADIN

King of Blacks, Rose Queen, bright deep bright scarlet, white.

white-gold, yellow, mixed 40 .85

TEICHER'S STRAIN, mixed 1.00 ...

Shasta Daisy, exhibition giant white 45 1.15

DELPHINIUM PACIFIC GIANTS.

Black Knight, Blue Jay, King of Guinevere, Galahad.

Summer Sky 75 2.40

Clear White, mixed 65 2.00

Digitalis Shirley, pastel shades. Many new colors 45 ...

Doronicum caucasicum magnificum 75 2.25

Gypsophila oldhamiana 20 .50

Gypsophila cerasoides 45 1.80 Hollyhock, Double Triumph Supreme. New colors; large degree of rust-resistance 60 .75

Meconopsis baileyi, reflected 75 ...

Oriental Poppy, Betty of Livermere, Brilliant, Carnelian, Mahoney, Perry's, White, Princess, Victoria Louise, Rembrandt, Queen Alexandra 30 ...

Primula auricula Monarch 75 1.50

Primula bullesiana, hybrids 40 ...

Primula florindae 40 ...

Primula japonica, mixed 40 ...

Primula veris colossea, mixed 75 3.50

Pyrethrum Robinson's Giants 40 .90

McLAUGHLIN'S SEEDS

Helena, Mont.

FROM 1949 CROP.

Halesia tetragona (Coral, Silverbell). $\frac{1}{4}$ -lb., 70c; 1 lb. \$2.00.

Symplocos paniculata (Turquoiseberry). $\frac{1}{4}$ -lb., \$1.10; 1 lb. \$3.00.

Prepaid in U. S.

PEEKSKILL NURSERY Shrub Oak, N. Y.

FRESH 1949 CROP SEEDS.	
Longleaf Pine, <i>Pinus palustris</i> .	Per lb. \$3.00
Slash Pine, <i>Pinus caribaea</i> .	.50
Chinquapin, <i>Castanea pumila</i> .	1.50
Ilex glabra, smooth-leaved Holly.	.75
Ilex vomitoria, Yaupon.	1.50
Juglans cordis, Jap. Walnut.	.60
Cornus florida, White Dogwood.	.75
Pecan, small.	.25

STOVAL NURSERY Leakesville, Miss.

FRESH COLLECTED, 1949 CROP.	
Cornus florida, dried berries.	.80-.75
Viburnum dentatum, dried berries.	.75
Ilex opaca, fresh seed berries.	.55
Ilex opaca, clean seeds.	3.00

WILLIAM J. WRIGHT Bridgeton, N. J.

Turn Stock Into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

SHRUBS AND TREES

GOLDEN WEEPING WILLOW. Golden bark makes a most attractive tree in winter as well as in summer. Stocky trees with heavy heads on the larger sizes. Order at once before growth starts.

Each	Each
per 10 per 100	
3 to 4 ft.	\$0.50
4 to 5 ft.	.50
5 to 6 ft., 1 to 1½-in. cal.	.75
6 to 8 ft., 1½ to 2-in. cal.	1.00
8 to 10 ft., 1½ to 2-in. cal.	1.25
2 to 3 ft.	.50
3 to 4 ft.	.50

FORSYTHIA SPECTABILIS. The choicest variety of forsythia. Nice clean, young stock. Order today before new leaves start.

Each	Each
per 10 per 100	
1 to 2 ft.	\$0.50
2 to 3 ft.	.75
3 to 4 ft.	1.00
4 to 5 ft.	1.25
5 to 6 ft.	1.50
6 to 8 ft.	1.75
8 to 10 ft.	2.25

CRAPAE MYRTLE. Nice bushy plants with an abundance of fibrous roots. "Watermelon Red" and other shades of flowers.

Each	Each
per 10 per 100	
1 to 2 ft.	.40
2 to 3 ft.	.50
3 to 4 ft.	.50
4 to 5 ft.	.50

JASMINUM PRIMULINUM. The handsome, large-flowered, spring-blooming variety, not hardy north. Heavy plants.

Each	Each
per 10 per 100	
1 to 2 ft.	.60
2 to 3 ft.	.50
3 to 4 ft.	.50
4 to 5 ft.	.50

ELAEAGNUS PUNGENS COMPACTA. A compact-type of evergreen elaeagnus. Nice bushy plants at bargain.

Each	Each
per 10 per 100	
1 to 2 ft.	1.75
2 to 3 ft.	1.50
3 to 4 ft.	1.75
4 to 5 ft.	1.75

AZALEAS, ILEX OPACA, JUNIPERUS VIRGINIANA, FLOWERING CRABS, VITEX, WEIGELA, OSMANTHUS, WHITE ASH, CONCORD GRAPE and many other items of quality are in our wholesale list. Send for copy today. All prices F.O.B. Exmore, packing additional.

THE TANKARD NURSERIES Exmore, Va.

OUR STOCK IS TRUE-TO-NOME AND TOP-QUALITY.

Per	Each
Each	doz.
Althaea (<i>Hibiscus syriacus</i>) Effie Riegel. The finest double white.	2 to 3 ft. \$0.60
Oleander, Mrs. Swanson. Semi-double, dainty shell-pink. Finest new.	24 to 30 ins. 1.00
Mimosa Albizia julibrissin. Our most beautiful, small, flower Per	1.00
ing tree.	6 to 10 ins. \$3.00
12 to 18 ins. 4.00	12 to 18 ins. \$20.00
24 to 30 ins. 7.00	24 to 30 ins. 30.00
36 to 40 ins. 12.00	36 to 40 ins. 80.00
50 at 100 rate; 500 at 1000 rate.	50 at 100 rate; 500 at 1000 rate.
3 to 4 ft., transplants. 20.00	3 to 4 ft., transplants. 20.00
4 to 5 ft., transplants. 40.00	4 to 5 ft., transplants. 40.00
6 to 7 ft., transplants. 90.00	6 to 7 ft., transplants. 90.00
Not less than 10 at 100 rate.	Not less than 10 at 100 rate.
Melia, Texas Umbrella Tree. A small tree of great beauty.	15 to 18 ins. 6.00
20 to 30 ins. 25.00	20 to 30 ins. 35.00
Not less than 50 at 100 rate.	Not less than 50 at 100 rate.
3 to 4 ft., heavy transplants. 35.00	3 to 4 ft., heavy transplants. 35.00
No less than 10.	No less than 10.

RIEGEL PLANT CO., Experiment, Ga.

LINING-OUT STOCK.

Per 100	Per 1000
Honeysuckle, Heckrottii, 10 to 12 ins. \$14.00	
Euonymus coloratus, 1-yr. transplants. 12.00	
Euonymus carrierei, 1-yr. transplants. 10.00	
Euonymus radicans, 1-yr. transplants. 10.00	
Spiraea, freibergii, 8 to 10 ins. 7.50	
Spiraea Anthony Waterer, 6 to 8 ins. 8.50	
Red Cedar, seedlings, 4 to 6 ins. 4.00	
Red Cedar, transplants, 8 to 10 ins. 12.00	

ROOTER CUTTINGS.

Per 1000	Per 1000
Snowball, common, well rooted. 8.00	
Euonymus radicans, well rooted. 7.50	
Euonymus carrierei, well rooted. 7.50	
Euonymus coloratus, well rooted. 8.00	

HARDWOOD CUTTINGS.

Hand-made, 7 ins.	Per 1000
California Privet. 3.50	
Amur River North Privet. 3.50	
Lombardy Poplar. 3.00	
Cash, please. No charge for packing.	

PRITCHARD NURSERIES Ottawa, Kan.

LINING-OUT STOCK.

Per 100	Per 1000
Honeysuckle, Heckrottii, 10 to 12 ins. \$14.00	
Euonymus coloratus, 1-yr. transplants. 12.00	
Euonymus carrierei, 1-yr. transplants. 10.00	
Euonymus radicans, 1-yr. transplants. 10.00	

California Privet. 3.50

Amur River North Privet. 3.50

Lombardy Poplar. 3.00

Cash, please. No charge for packing.

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Amur River North Privet. 3.50

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Euonymus coloratus, 1-yr. transplants. 12.00	
Euonymus carrierei, 1-yr. transplants. 10.00	
Euonymus radicans, 1-yr. transplants. 10.00	

California Privet.

SHRUBS AND TREES—Continued

Limited amount of Hybrid Elm liners, 18 to 24 ins., from root cuttings, 10c each. Not over 100 to any one party.

The HARRIS GARDENS Enterprise, Kan.
See our classified ad under Evergreens in this issue.

T. G. OWEN & SON, Inc.
Columbus, Miss.

Evergreens, Ornamental Shrubs and Trees. 40 varieties. Lining-out and finished stock. List free.

The PEQUOT NURSERIES Brainerd, Minn.

VEGETABLE PLANTS

WHOLESALE PRICE LIST—1950.

Plant variety	Date Ready	Per 1000
Cabbage	Now	\$1.25
Collard	Now	1.25
Onion	Now	1.00
Lettuce	Now	2.50
Broccoli	Now	2.50
Cauliflower	Now	5.00
Pepper	April 15	3.00
Eggplant	April 15	3.00
Tomato	April 15	3.00

All above prices F.O.B. Albany.

Leading varieties. Write for catalog. Large, fresh plants. Prompt shipment.

Write or Wire:

PIEDMONT PLANT CO.
Box 946 Albany, Ga.

VEGETABLE ROOTS

RHUBARB (PIE PLANT).

Giant Victoria, whole roots.

Bright, clean and fresh. Ship anytime.

	Per 100 Per 1000 Per 5000
1 1/2 to 2-in. cal.	\$7.50 \$70.00 \$325.00
1 to 1 1/2-in. cal.	5.00 45.00 200.00
5/8 to 1-in. cal.	4.00 35.00 150.00

Big assortment of nursery stock. List free.

WILLIS NURSERY CO., Ottawa, Kan.

ASPARAGUS ROOTS.

Booking orders for spring delivery.

Washington, strong, well graded.

1-yr., \$1.50 per 100, \$10.00 per 1000.

2-yr., \$2.50 per 100, \$19.00 per 1000.

ROUDEBUSH GARDENS
Rt. 3, Box 397 Dayton 3, Ohio

VINES

GRAPEVINES.

Concord, 2-yr., No. 1, \$45.00 per 1000.
BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

MISCELLANEOUS

Rhododendron hybrid seedlings,	Per 100
4 to 6 ins.	\$25.00
6 to 8 ins.	35.00
Azalea occidentalis, 8 to 12 ins.	35.00
Azalea Alta Clarense, 4 to 6 ins.	25.00
Azalea schlippenbachii, 4 to 6 ins.	25.00
Phlox, named, liners, \$100.00 per 1000.	
Trollius	20.00
Primrose, Junc. hybrid	20.00
Pink Hawthorn	20.00
Primrose, polyanthus	15.00
Bleeding Hearts, at nursery	25.00
Heather, mediterranea and carnea (red)	50.00

Also many choice perennials at 17c.

PORTLAND AVENUE NURSERY
1409 E. 59th St. Tacoma, Wash.

WHITE SCUPPERNONG VINES.

2-year-old, 25c ea., \$25.00 per 100.

3-year-old, 35c ea., \$35.00 per 100.

Male Scuppernong vine price.

VIRGINIA LIVE OAKS.

2-year-old, 25c ea., \$25.00 per 100.

STOVAIL NURSERY

Leaksville, Miss.

SUPPLIES

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

KNOCK-DOWN FLATS.

16x12x2%	\$.18.82 per 100
16x14x3%	24.98 per 100
20x14x2%	24.56 per 100
20x14x3%	28.00 per 100
22 1/2x15x2%	28.14 per 100
22 1/2x15x3%	32.63 per 100

All other sizes quoted on request. Prices P.O. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per flat. Our flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel. 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap baled bags, \$1.60 each; 10 or more, \$1.50 each.

COLBY PIONEER PEAT CO., Inc.

Hannontown, Iowa

ACE BOXES ARE ACE HIGH FLATS, COMBINATION and RULED Boxes, shingled, knocked down or made up, per 100, F.O.B. Kansas City, Mo.

Inside measure K.D. Made up

16x11 1/2x2 1/2 ins. \$17.00 \$20.00

18x12x3 1/2 ins. 18.00 21.00

20x14x2 1/2 ins. 23.00 26.00

22x15x3 1/2 ins. 28.00 31.00

Other sizes quoted on request. Orders of

300, deduct \$1.00. Orders less than 100, add

50c. Special prices on 1000 or more. Bottoms and sides 5/8-in. ends 1/2-in. Good grade lumber. Check must be attached to order. Prompt delivery.

COMBINATION BOXES, PRICED per 100, F.O.B. Kansas City, Mo.

Outside measure K.D. Made up

12x6x5 ins. \$12.00 \$14.00

14x6x5 ins. 14.00 16.00

16x6x5 ins. 16.00 18.00

18x6x5 ins. 18.00 20.00

20x6x5 ins. 20.00 21.00

In quantities of 300, deduct \$1.00 per 100.

Less than 100, add 50c.

ACE BOX CO., Inc.

1675 Madison Ave., Kansas City 6, Mo.

Phone: Victor 4494.

Increase Your Profits With
PLANT COVER NETS.

Stop plant and seedling losses. Use plant cover nets for year-round plant protection. Perfect for shade; protect plants from frost, snow and hail. Keep out birds, pests. Nets guaranteed to withstand conditions. Milwaukee's greater resilience and strength of consistent. Last 3 to 5 years—very economical. Available in 3 convenient sizes. F.O.B. nearest of 6 convenient shipping points over the nation. Less than 100 sq. ft. Order yours today!

45x45-ft., \$19.75 each

36x44-ft., 14.75 each

29x29-ft., 7.95 each

G.I. SURPLUS DISTRIBUTING CO.

P.O. Box 943 Dept. AN 2-15 Austin, Tex.

DAHLIA OR TREE LABELS.

	Priced per 1000
Plain	\$2.50
Painted	3.00

3 1/2x 5/8 ins., notched, not wired, \$2.50

3 1/2x 5/8 ins., wired, copper, 3.30

POT LABELS.

4x 5 ins. (cartons 1000 each). 3.00

5x 5 ins. (cartons 1000 each). 3.30

6x 6 ins. (cartons 1000 each). 3.50

Priced per carton.

8x 6 ins. (cartons 500 each). 2.50

10x 8 ins. (cartons 500 each). 3.00

GARDEN STAKES.

Priced per carton.

8x 6 ins. (cartons 250 each). 2.00

10x 8 ins. (cartons 250 each). 2.25

12x 1 1/2 ins. (cartons 100 each). 1.50

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

YOHKO & HOOKER Youngstown 2, Ohio

Now is the time to build new low-cost shade houses, or to replace your old worn-out or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, garnished with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. Inexpensive and easy to install. Last houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN E. A. FARLEY
P. O. Box 946 3333 Gentilly Blvd.
Columbus, Miss. New Orleans, La.

ELECTRIC PROPAGATING KITS.

FOR GREENHOUSE BENCHES OF HOT-BEDS—Each contains long-lasting HEAT-SUM CABLE, Soil Thermostat, Pilot Lamp and Thermometer.

Sq. Ft. Length and Price

Unit Heated Watts Volts No. Units

A 20 200 110 1- 60 ft. \$18.93

B 40 400 110 2- 60 ft. 22.83

D 80 800 110 1- 300 ft. 32.43

E 150 1500 110 1- 500 ft. 48.93

F 300 3000 220 1-1000 ft. 76.30

All prices F.O.B. Seattle

COLDFRAME FROST PROTECTION—

Same equipment will protect 50 PER CENT MORE AREA. LITERATURE ON REQUEST.

I. N. ROBERSON CO.

1539 East 163rd St. Seattle 55, Wash.

MICHIGAN PEAT.

"HIGH NITROGEN-QUALITY PEAT"

Reliable, efficient, economical. 9% per cent organic, pH 4. Serving leading nurseries for over 30 years. Fine, medium and coarse grinds. OUR BAGS ARE HUGE! Carloads, truckloads, barrels and baged.

2 to 100 bags (4 to 6) but only \$1.50 ea.

F.O.B. Cinc. Mich. Dealer franchises open. Tests prove M.P. does a better job cheaper. WHY PAY MORE? Order today!

MICHIGAN PEAT, Inc.

267 Fifth Ave. New York 16, N. Y.

SPHAGNUM MOSS.

Write for prices on burlapped and wire-bound bales.

THOMAS RESHEL City Point, Wis.

WILL TRADE

One 2-inch Oscillator, one Hand Drilling Machine for drilling puzzle holes in irrigation lines. 185 pine hangers for 1-inch and 1 1/4-inch posta. Will trade for Taxus (Yew) of different varieties. What have you?

Also St. Joe Wire Stapling Machine, foot-operated. Ideal for stapling wooden boxes, crates and baskets of all kinds. Price \$30.00.

NOVOTNY GARDENS Osage, Iowa

MINNESOTA WHITE CEDAR FLATS.

12x16x2 1/2 ins. \$16.25

14x20x2 1/2 ins. 20.00 per 100

14x20x3 3/4 ins. 23.00 per 100

Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.

H. C. HILL & SONS, Cook, Minn.

TREE DIGGERS.

The Tree Digger gets all the roots with your fruit trees, shade trees, flowering shrubs, rosebushes, etc. Nursery stock properly dug with all the roots means satisfied customers. Particulars on request.

RUSSELL WILSON

Winnabow, Tex.

HARDWOOD CUTTING MACHINES.

Save time, save labor, save money. Use Wilson's Hardwood Cutting Machine to make up your cuttings. Cutting blades made of best steel, sharpened and will keep a keen cutting edge. Particulars on request.

RUSSELL WILSON

Winnabow, Tex.

NURSERY REQUISITES.

Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders, Catalog on request.

Since 1900

TYSON ORCHARD SERVICE

Flora Dale (Adams County), Pa.

BLACK MAGIC PEAT MOSS.

Mixed with soil for potting plants. Aerates, lightens soil and holds moisture. Keeps plants flourishing. 90c per bu. 10 bu. for \$7.50. F.O.B. Rogers, Ark.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

WISCONSIN'S QUALITY SPHAGNUM MOSS.

Clean, long-fibered, solidly packed in burlapped or string bales of standard size, direct from drying beds, none better.

Trucked when feasible.

WARREN'S MOSS CO., Box 7, Warrens Wis.

HIGH NITROGEN HORTICULTURAL PEAT.

Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00 each.

COLBY PIONEER PEAT CO., Inc.

Hanlonetown, Iowa

GIBRALTAR Frost Covers pay for themselves.

Economical, long-lasting, ideal for windbreaks. 6 ft. wide; 50 ft. \$13.75; 100 ft. \$26.00; 150 ft. \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N. Y.

ELECTRIC SOIL HEATING KITS.

Dependable "G.E." units for hotbeds and greenhouses at low winter prices. Write for free "Soil Heating Bulletin" FULGHAM, P. O. Box 497, McComb, Miss.

PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders, Samples sent.

J. GARLAND HILL, Dept. A, Seaford, Del.

PAY LESS FOR WOOD LABELS.

High quality, fully guaranteed. Write for prices and samples.

ANTHONY & Co., Escanaba, Mich.

WANTED

500 Assorted Roses, No. 1. 5000 Scotch Pine, 10 to 12, and 12 to 18 ins.

trans.

500 Apple, 9/16 and 11/16-in.

100 Cherry, Montmorency, 11/16-in.

100 Peach, 11/16-in.

50 Norway Maple, 10 to 12 ft., branched.

200 Euonymus alatus, 18 to 24 ins., and

2 to 3 ft., bare root.

200 Euonymus vegetus, 12 to 15, 15 to 18, 18 to 24 ins., bare root or B&B.

100 Dundee Juniper, 18 to 24 ins., and

2 to 3 and 3 to 4 ft., B&B.

100 Muske Pine, 12 to 15 and 15 to 18 ins.

B&B.

Send surplus list.

L. E. STONE & CO., Inc.

Bensenville, Ill.

QUOTATIONS WANTED.

Viburnum dentatum, grafting size or strong 2-yr. seedlings.

Viburnum lantana, grafting size or strong 2-yr. seedlings.

Norway Spruce, grafting size.

Please quote what you can supply per 1000.

HELP! HELP! HELP!

I need the following trees and shrubs to complete my home arboretum planting of native Illinois trees. If you can supply, let me know. *Quercus stellata* Wangenh; *Q. marilandica* Muench; *Q. shumardii* Buckl.; *Q. palustris* Muench; *Q. phellos* L.; *Q. prinus* L. (not Montana Willd); *Tilia heterophylla* Vent.; *Fraxinus nigra* Marsh; *Fr. tomentosa* Mich.; *Fr. pennsylvanica* Marsh; *Populus heterophylla* L.; *Prunus* *tacamahaca* Mill.; *Carya glabra* (Mill.), Sweet and ovalis (Wangenhi); *Sargi.*; *Taxus canadensis* Marshall (shrub); *Juniperus communis* L. (shrub).

S. GLIDDEN BALDWIN, M. D.
139 N. Vermillion St., Danville, Ill.

I need the following liners for spring delivery. If you cannot quote the whole list, please quote on the separate items you can furnish.

200 *Ferns* *borbonia* (Red Bay)
300 Willow Oak
300 Aronia arbutifolia
300 *Quercus virginiana*
500 *Cornus florida*
300 Pin Oak
200 *Ginkgo biloba*
200 *Cedrus deodara*
300 *Ilex cassine* (Yaupon)

WALTER E. CAMPBELL,
Horticulturist and Landscape Contractor
695 Percy St., Greensboro, N. C.

WANTED TO BUY—1000 *Rosa multiflora*, R. C. or seedlings, budding size, 500 *Rosa multiflora*, whipa, 3 to 5 ft., budding size. Also lining-out budded Roses, field-grown, climbers, etc., also Evergreens, 8 to 12 ins. Delivery March 15 to April 15. Mail your surplus list and prices to:

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Liners of good varieties for growing on. Also heavy liners of *Ilex* and *Taxus*, spreading.

Terms: Cash.
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SUNCREST EVERGREEN NURSERIES
Box 648 Johnstown, Pa.

WANTED TO BUY.
Myrtle (*Vinca Minor*), Bowles variety, 5000 or more and *Helleborus* clumps.
W. A. NATORI CO.
4400 Reading Rd., Cincinnati 29, Ohio

NURSERY STOCK WANTED.
Juniperus sargentii.
Sizes, 12 ins. and up.
THE PETER CASCIO NURSERY
2600 Albany Ave., West Hartford 7, Conn.

OHIO ARBORISTS' COURSE.

[Continued from page 14.]

produced. There is no tender elongating growth to wilt rapidly, twigs and root tips are thickening and the leaves are full size. There is a possibility that the tree may satisfy its needs for hormones as long as leaves remain. However, it may be well to make application by injection or spray.

He believes that the use of anti-desiccants warrants further study. The question of whether or not to fertilize is a debatable one, but Professor Mathieu believes that, if the tree is given a backfill of a mixture of peat and topsoil, sufficient nutrients will be supplied without the danger of injury by too high a nutrient concentration, and the moisture question also will be solved to some extent.

Fruit Set on Ornamentals.

Since many of our ornamental plants bear fruits which are objectionable either in appearance or in odor, various sprays have been tried to prevent their fruiting without in-

jury to flower or foliage. A number of these tests were described by Richard Miller, of Boulevard Gardens, Columbus, in a talk on "The Prevention of Fruit Set on Some Ornamental Trees." In testing a spray the vigor of the tree, the temperature, soil moisture and the stage of bloom were considered. All sprays were used with Santomerse S penetrator as a spreader-sticker at the rate of one pint per 100 gallons of water. Twenty-five different spray materials were tried, and over 900 different applications were made.

On Norway maple an application of App-L-Set at five pounds per 100 gallons of water during full bloom was the most promising spray used, but the leaves never developed to more than two-thirds their normal size.

Horse-chestnut fruit set was prevented by a spray of App-L-Set at two and one-half pounds per 100 gallons of water applied on May 5. The foliage or flowers were not injured, but the flowers did have a grayish cast. When applied in mid-May, sprays of App-L-Set, Parmone and N-1-naphthyl-phthalamic acid were effective in causing fruits three-eights inch in diameter to abscise.

On tree of heaven, App-L-Set at five pounds per 100 gallons of water and Parmone at 26.4 fluid ounces per 100 gallons of water were the most satisfactory materials used during full bloom. They were applied May 4. Fruit either did not set or abscised before development.

Northern catalpa fruit set was prevented by spray concentrations of App-L-Set at two and one-half pounds per 100 gallons of water, Parmone at thirteen and one-quarter fluid ounces per 100 gallons of water, and a-naphthaleneacetic acid at one and one-third ounces per 100 gallons of water.

On European ash, DN-289 at one quart per 100 gallons of water eliminated fruit set when applied March 30 and while the female flowers were two and one-half to three inches long.

One of the most difficult fruits to control is that of *Ginkgo biloba*. The most promising spray is maleic hydrazide applied at full bloom in early May. The fruit set was prevented, but after one month the new terminal stem growth died back two to three inches. More trials should be made on this spray.

A spray with a-naphthaleneacetic acid at one and one-third ounces per 100 gallons of water or Parmone at thirteen and one-quarter ounces per 100 gallons of water on May 25 eliminated fruit set on thornless

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for capable manufacturers' agents calling on retail seed stores and departments. This is a new specialty item, without competition, for steady over-the-counter sales. Good commission and trade discount. Write details of territory you cover and lines handled.

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honey locust, and sprays applied June 9 caused fruits one or two inches long to abscise. App-L-Set applied at two and one-half pounds per 100 gallons of water on June 9 caused fruit abscission.

More work needs to be done on Kentucky coffee tree, but Di-Nitrol at the rate of one and one-half pounds per 100 gallons of water was most effective, though it caused slight foliage burn.

None of the materials tried on sweet gum was satisfactory. The sprays tried on red and white mulberries and on London plane tree were also unsatisfactory.

On the purple crab apple trees the most promising spray was N-1-naphthyl-phthalamic acid at 5.4 ounces per 100 gallons of a mixture of Dowax and water, at one to twenty gallons, applied at the prepink stage on March 29.

Eastern poplar or cottonwood sprayed in full bloom (leaves appear after bloom) about April 1 with six pounds of DN-1 and one pint of light summer oil, three pounds of DN-2 and one pint of light summer oil or two quarts of Elgetol per 100 gallons of water were all effective in preventing fruit set.

The naphthaleneacetic acid and related compounds are most promising on trees with foliage exposed while in bloom. Ginkgo is an exception. Dinitro compounds are most useful for preventing fruit set on trees which have their flowers exposed while leaf buds are still dormant. N-1-naphthyl-phthalamic acid may prove useful on some trees such as the purple crab apple.

Insects of Elms and Oaks.

The discussion of insect pests of elms and oaks was given by Dr. George S. Langford, department of entomology, University of Maryland, under the title of "Some Troublesome Insects and Their Control." He spoke on the basis of practical operating programs which the arborist may use to educate his clients to the need of spraying. Both client and arborist should know when to apply various sprays, the need for these sprays, what insects are being killed by them and what to expect from the sprays.

The chief need is for information concerning practical spray schedules for group insect control. Dr. Langford stressed the need for mixing sprays in such a manner that one application will kill several kinds of insects. Mention was made of several effective spray materials, such as the oil sprays, lime-sulphur, dinitro ortho cresol, DDT, arsenate of lead,

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Address Box 689, care of American Nurseryman.

OPPORTUNITY WANTED

Graduate landscape architect and nurseryman with 20 years' experience in all phases of nursery business, terminated in 1942 by 4 years' army service during which rose to rank of colonel. Specialized in wholesale and retail sales and have hundreds of old customers among architects, realtors, builders, cemeteries, golf clubs, parks, etc., in Chicago and suburbs. Presently employed as vice-president of large Chicago company not in nursery field. Income now in top 4-figure bracket. Strongly desire getting back in nursery field; present work too confining. Seek arrangement with one or several nurseries which will work out to provide outlet for substantial quantities of nursery stock or allied products and represent you in Chicago district. Can furnish highest references as to character, ability and integrity. Correspondence invited. Address Box 696, care of American Nurseryman.

FOR SALE

Profitable nursery located near Detroit and its numerous, fast-growing suburbs. Consists of 81 acres of the finest loam in Michigan, 60 acres tilled. 50 acres are planted now with approximately 80,000 leading varieties of young, thrifty evergreens from 12 ins. to 4 ft., such as yews, pyramids, pfitzers, grafted junipers, Colorado blue spruce and other best-selling varieties, all of them in checkered rows, 40 x 40 ins. Modern buildings and all up-to-date nursery equipment. Doing a good wholesale and retail business. Must go out of business because of age. Will consider good nurseryman with money and knowledge to work it in shares. Will sell entire nursery or the 50 acres of evergreens, with or without tools. The price is less than cost. For further information write to Box 690, care of American Nurseryman.

HELP WANTED

Man experienced in landscaping and retail sales in modern garden center. Year-around job, excellent opportunity if you are willing to work. Answer by letter in own handwriting giving experience, age and salary expected. Conn., 35 miles from N. Y. C.

The GARDENERS' CENTER
53 Post Rd.
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Graduate landscape architect for leading midwestern nursery. State age, experience and salary expected in first letter. Replies confidential. Address Box 694, care of American Nurseryman.

HELP WANTED

Wholesale sales representation in Illinois, Indiana, Wisconsin and Michigan for lining-out and finished stock by leading midwestern nursery. Address Box 695, care of American Nurseryman.

HELP WANTED

Established landscape and tree service business wants landscape salesman who can draw plans, estimate costs and do office work. Job must be energetic, honest and willing to work. Permanent position. State experience. Salary plus commission. Conn., 35 miles from N. Y. C.

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Position available for a man able to take full charge of large jobs for a landscape contracting firm, with emphasis on FHA garden apartment work.

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Address Box 687, care of the American Nurseryman.

FOR SALE

Nursery located on heavily traveled U. S. highway in central northeastern portion of Ohio. Doing a good, rapidly increasing business in industrial area of approximately 200,000 population. Will sell nursery, stock, name and equipment, either with or without 7-room modern house. Have small sales force of experienced nursery salesmen. Ill health reason for selling. Address Box 693, care of American Nurseryman.

FOR SALE

Retail nursery business. Downtown location in small town in North Bay area, California. Approximately 8,000 population in area served. No competitor nearer than 20 miles. 3-year lease, option for 5 more. Artistic store, lath house, warehouse. Price \$5,000.00, plus inventory of stock. Write Box 691, care of American Nurseryman.

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Nursery stocked with evergreens, shrubs and shade trees. Located 70 miles southeast of St. Louis on highway 61. Established 30 years. 10 acres, modern 7-room house, good out buildings. Priced to sell because of illness. For details, write.

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College graduate with B.S. in Landscape Architecture from Michigan State College and a farm background desires position with reliable nursery. Have done landscape jobs in training and worked with landscape architect during summer months and spare time. Married, 2 dependents. Address Box 683, care of the American Nurseryman.

SITUATION WANTED

College graduate in horticulture desires a position with a landscape nursery or garden center. Has had experience in landscaping, propagation and arboriculture. Experience in propagation with the largest wholesale firms. Address Box 692, care of American Nurseryman.

calcium arsenate and others. He also mentioned the residual sprays, such as DDT, Lindane and Chlordane. Of the newer sprays, tetraethyl pyrophosphate was mentioned, and he suggested that where it can be used safely, it can be a tremendous asset to any spray mixture because it is effective in killing a host of insects. Parathion was mentioned as a stomach poison, a contact insecticide and a residual spray all wrapped up in one chemical. It is dangerous and should not be used in places frequented by children and animals.

Dr. Langford continued by naming the insects that should be given control measures each month and by giving brief descriptions of elm and oak insects so that arborists might better identify them. This information will be published in a subsequent issue.

Elm and Oak Diseases.

In discussing "Decays and Some Other Diseases of the Elms and Oaks," R. R. Hart, New York State College of Forestry, Syracuse, defined disease as an upset of the normal physiological functions of the tree.

Decays and rots infect either the heartwood or sapwood. Heartwood does not affect the functioning of the tree directly, but the enzymes and other substances diffuse out into the sapwood, which is directly connected with the functions. Decays and rots attack through wounds. The size and period of exposure influence the attack, and cure is almost impossible in most cases without surgery. Invigorating the tree sometimes helps. Decay progresses across a tree no faster than the cambial growth in a year, but will progress upward about four inches in a year.

The usual way to recognize decay is in the difference of the infected wood, but the infected part often extends eight or ten feet above the discolored wood, since the mycelial threads penetrate deeper than the eye can see. Recognition of the fungus is chiefly by the manner and place of attack.

The following are the chief fungi of the elm:

Chloratus ulmarius is a mushroom-

HELP WANTED—Working foreman for a retail nursery and a landscaping firm. State experience and wages and full information in first letter. Address replies to Box 697, care of American Nurseryman.

HELP WANTED—Man to draw plans and help in sales work. Landscape architect preferred, although would consider anyone capable of drafting plans. Guaranteed salary, plus commission on all sales. PLATT'S, Hiway 218 W., Waterloo, Iowa.

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type fungus, six to eight inches tall, with gills beneath the cap. It is found on dead branches. The fruiting body is produced in September and October. It is found only in heartwood and is started from a wound. Use tree paint on wounds.

Ustilina is found only at the base of a tree, is one-eighth inch thick and is about the size of a dollar. Both sapwood and heartwood are infected. Surgery will control it if done in time and the tree is well fertilized.

The most important fungi of oak follow:

Foames applanatus is a woody shelf fungus which is white on the underside. It is a basal rot fungus not more than eight inches aboveground, usually five or six inches across, but sometimes as much as two feet across. It is a wound fungus attacking both sapwood and heartwood. Eradication is difficult.

Sulphur fungus attacks either the top or base of the tree. This soft, layered, edible fungus causes a serious brown heart rot. It starts in September. If fruiting it is almost impossible to eradicate.

Dedalia corsina is usually found on deadwood or in wounds. If the branch can be cut off to living wood, the fungus can be controlled. It is not serious. The fungus is a corky fruiting body with holes.

Slipper gill is found on deadwood on the trunk and is about two to two and one-half inches in diameter. Remove sapwood on either side of the wound to control it.

Leaf Diseases.

"Leaf Diseases—Parasitic and Non-parasitic" was the subject of a talk by Dr. Forrest C. Strong, department of botany, Michigan State College. There may be rather extensive damage to trees from such diseases, and in fruit trees damage will be evidenced by a reduction in fruit. The work done on shade trees to combat these diseases has been small in comparison to that done on orchard trees. It is necessary to know the cause to treat such diseases.

Since time was limited, it was not possible to discuss all leaf diseases in detail. The treatments of many of them are similar; so the speaker chose one disease, the elm leaf spot, as an example and told how control may be attained. This disease has small crust-like lesions from the size of a pin point to one-eighth inch in diameter. Spore bodies carried by air currents infect plants in the spring.

To control it a fungicide must be applied before the spores settle on the surface of new leaves. The first application should be made as the

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leaf appears from the bud. The second application should be put on eight days later and a third fourteen days after the second. A fourth and fifth application may be applied before the leaf reaches full size. Bordeaux mixture 8-12-100, lime-sulphur 1-50, wettable sulphur and the copers are all effective controls.

Elm trees vary in susceptibility and should be surveyed the year before these applications are made to determine this. Puratize can be used for hawthorn leaf spot. The same general spray schedule may be used for most fungus diseases. A dormant fungicidal spray should be used for anthracnose of sycamore. On Paul's Scarlet hawthorn, organic mercury sprays are most effective, with four sprays being necessary in tests at East Lansing, Mich.

The remedy for nonparasitic diseases is to remove the cause. This might be from leaf scorch, winter drying of conifers, sudden defoliation, fume injury, chlorosis, deficiencies, etc.

Leaf scorch on hard maples causes browning of tissues around the edges and between the veins. A deficiency of moisture is usually the cause. An auger may be used to test the soil for this. Slow application of water is necessary for a cure. If the soil is moist the cause may be excessive evaporation from the leaves. Other causes may be from dying roots, injured roots or deficiencies. A complete fertilizer is the treatment for a deficiency.

Chlorosis of pin oak will appear if the pH of the soil is 6.8 or higher. In this alkaline condition iron is not available. Remedial measures are to apply sulphur, aluminum sulphate or iron sulphate, or to spray the foliage with an iron salt.

A virus may be a cause of some diseases.

M. M. EATON has purchased from Mrs. T. A. Havemeyer the Cedar Hill Nursery, Brookville, N. Y., with mailing address of Glen Head, Long Island. This nursery was established in 1910 and is said to contain one of the world's largest privately owned collections of lilacs.

PROMOTED to general manager of Dallas Nurseries & Garden Center, J. Grady Brown, Jr., will be in charge of the firm's sales offices and the two nursery farms. Mr. Brown, who studied landscape architecture and horticulture at Texas A. and M. College, started with the firm fourteen years ago, working after school and during summer vacations.

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AMERICAN NURSERYMAN

LANDSCAPERS' COURSE.

[Continued from page 15.]

be propagated by cuttings it usually does not gain much popularity in any particular region.

His lecture, illustrated with Kodachrome slides, discussed the plants in order of blooming time. Azalea mucronulata and A. reticulata are similar in appearance and time of bloom. The variety Snow is the best white azalea, but is very tender. Hiroshima and Sokiya are old pinkish forms of Snow.

In mid-May A. vaseyi shows its pink blooms. It is hardy and propagated from seeds. A. schlippenbachi is hardy, prefers full sun and is deep pink in color. A. yedoensis is a hardy magenta variety. A. obtusa is the species which includes A. kaempferi, a hardy variety. A. albrechtii is a hardy pink variety. The only true yellow rhododendron that is hardy is R. keiskei. The hardest of the Kurumes around Philadelphia are Amoena, Hinodegiri, Benegiri and Snow.

The Glenn Dale and Vuykiana hybrids are not recommended for this region until more is known about them. The Arnoldianas are tougher than the straight Kurumes.

Rhododendron carolinianum, A. atlantica, nudiflora and rosea are all native forms.

The main show of rhododendrons usually starts in late May and early June. The catawbiense kinds and many of the Dexter hybrids are large-flowered and have loose flower trusses which are very showy. Azaleas blooming at this time are japonica, flava, mollis, arborescens and calandulacea. The two main large-flowered hybrids are mollis azaleas and the Ghent hybrids.

The late June varieties include the hardy Rhododendron maximum. Indica azaleas are not recommended for Ohio. A. viscosa is the best late native species.

Mr. Skinner selected as the best native species A. vaseyi, atlantica, nudiflora, rosea, arborescens, calandulacea and viscosa. The best Asiatics are schlippenbachi, albrechtii, yedoensis, kaempferi and japonica. For named hybrids he suggested kaempferi, arnoldiana and the Ghent late-flowering hybrids. He selected R. carolinianum, minus, keiskei and matsu as desirable species. For color he suggested one use some Catawba rhododendrons and the hardest of the Dexter fortunei hybrids.

Small Home Landscaping.

In a talk on "The Design for the Small Homesite," Carl Ray, head of

Carl Ray Co., St. Matthews, Ky., touched on numerous phases of this landscaping problem. He first stressed simplicity in mass plantings. He said that a desire to rush the completion of a job or to hurry to satisfy an immediate desire of a client often prompts neglect in doing the job as it should be done. The development of a good sod is the important beginning in any landscape project. A quick sod is unsatisfactory in the long run.

The value of trees for framing the landscape picture, air-conditioning and shade was emphasized. In working out the foundation planting the builder usually wants the easiest method of landscaping, which is often not good. It is the duty of the landscape nurseryman to discourage poor plantings, undo some of the bad influence of some roadside stands and combine the ideas of the owner and himself to make the desirable type of planting.

A pencil sketch or blueprint, a price picture and general specifications should be used as guides to the development of the landscape work. The landscape man should handle maintenance work on his landscape projects until they are well established, or for about two years. Mr. Ray suggested tying the landscape job into a good maintenance job. Do not do more landscaping than can be maintained by the owner, and use flowering and specimen trees which require less maintenance, such as lilacs and viburnums. Plants like the flowering peach are fast-growing but require much maintenance and are short-lived. He suggested that the cost of maintenance be added to the original cost of the planting. He said he makes a charge of fifteen to twenty per cent for this maintenance, which includes trimming, spraying and fertilizing. Price cutting is being done by landscapers in some areas, but this is not necessary with present-day demands, he said. Prices should be set that will permit the landscape nurseryman to stand back of his work.

Ranch-style Landscaping.

The talk of Prof. L. R. Quinlan, department of horticulture, Kansas State College, Manhattan, proved an informative and enjoyable discourse on "Landscaping the Ranch-type House."

A comparison was made of the ranch-type house, which is low, rambling and informal, having a low-pitched or flat roof and porches, with the block-type house of the 90's, which had bedrooms upstairs and the

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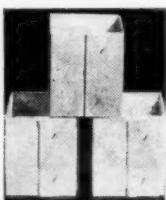
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living room, dining room and kitchen downstairs. In the latter case all landscaping was in the front yard, and there was no unified design. The back yard contained the barn, vegetable garden, clothes line, etc. With the ranch-type style, the high foundation has been removed, the house has been closer to the sidewalk and the living room has been given a backyard outlook and good light. The rooms relate to the units of the yard. In other words, the house and yard of today are of usable size and design.

Today the needs of the family are incorporated into the design. The nervous type of life requires an area of privacy for relaxation: usually a large terrace for entertaining and relaxation is desired. A minimum of maintenance must be planned, since less time can be devoted to that work by the owner and gardeners either cannot be afforded or are not available. The private area is the emphasized part of the landscape. The picture window should be toward the private area, instead of being given the public exposure that it so often has.

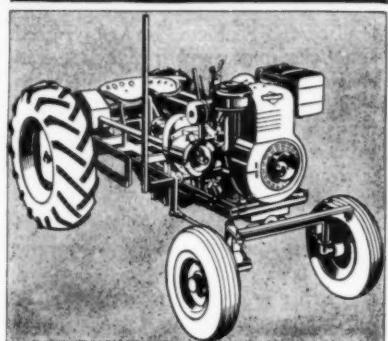
The landscape is divided into three simple areas, public, private and service areas. The service area contains the garage, vegetable garden, laundry yard, etc. The public area is an attempt to give the house a better setting. With the ranch-type house there is no need for planting with raised beds in many cases.

In planning the plants and plantings the doorway should be emphasized. The methods of emphasis stressed by Prof. Quinlan were of form, texture and color. In the use of form he warned against the use of conical shapes too freely. With the ranch-type house two upright plants should never be used, and usually none will be used. After describing the conical globe, vase-shape and sprawling ground cover shapes, etc., he suggested the globe as a desirable shape for emphasis with the ranch-type house.

In groupings one plant should dominate, and often one plant is enough in a location. In using a group, select and locate plants so that a gradual transition is made from the lawn to the dominating plant. He warned against using too many evergreens. They lack the fruits, flowers, twig color and fall coloring of the deciduous plants. A mixture of the two types of plants is more interesting.

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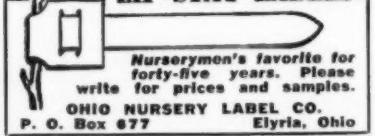
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ranch-type house detract from it. Trees should enframe the house and not hide it.

A little color can often be introduced into the foundation planting with bulbs for spring, floribunda roses for summer and chrysanthemums for fall. The foundation plantings should be tied in with the side-yard plantings.

The private area should include as large a terrace as possible. Beyond the terrace should be the garden. The formal type of garden is easy to design but usually monotonous. The naturalistic garden is almost impossible for a small lot. Contemporary designs are informal, assymetrical, patterns with dynamic or moving lines and interesting forms, and raised beds are often used.

Climate control may often be introduced into the design in the form of shade on the southwest side of the house, much sun in the winter, evergreens protecting from north winds, no concrete on the south side of the house, making use of a sloping lot for air drainage and stopping northwest winds by walls, board fences, etc.

Professor Quinlan concluded his talk by showing a fine group of slides illustrating many of the points brought out in his lecture.

OHIO NURSERY COURSE.

[Continued from page 16.]

quantity of viable seeds in the shortest time with the least expenditure of effort and money. His remarks will be published in a subsequent issue.

A topic of great interest and concern to nurserymen was presented by Dr. J. H. L. Truscott, of the horticultural experiment station, Vineland Station, Ont., Canada, when he spoke on "The Construction and Management of Storages for Nursery Stock." The information which he presented will be published in a subsequent issue.

University Research.

The first speaker on the afternoon program was Prof. Alex Laurie, department of horticulture, who outlined the method of financing research in the division of floriculture and ornamental horticulture at Ohio State University. The university budget provides the salaries for the staff, but it does not provide enough money to finance the graduate students who carry out the research work. Therefore, it is necessary to provide scholarships and fellowships to aid the graduate student with his

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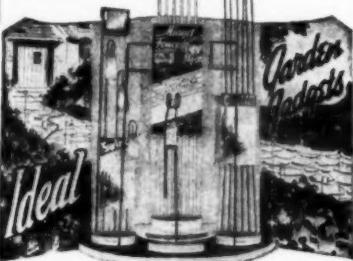
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work. Professor Laurie explained how the various fellowships were financed by different organizations and suggested that the best method was to tax the members of contributing organizations a certain percentage of their dues.

He also stressed that the department needed moral support as well as financial support in order to carry on research. It often takes years to obtain the answer to a problem; therefore support should not be withdrawn if results are not obtained immediately.

Dr. L. C. Chadwick then gave a brief resume of the nursery research problems at Ohio State University. Research in propagation is a continuous problem. At present comparisons of rooting mediums and of watering methods are being made. There is no one medium which is best for all types of cuttings. Tests have shown that a mixture of one-half silica sand and one-half vermiculite is probably the best all-around medium for various types of cuttings. Taxus brownii rooted best in vermiculite with a mixture of silica sand, and vermiculite ran a close second. Taxus hicksii rooted best in sand, and Taxus cuspidata rooted well in all of the mediums tried.

In comparing watering methods it was found that there was not a great difference in the over-all percentage of rooting obtained with the various methods. In comparing the amount of labor required, the Revere method and the forced subirrigation method required much less labor than did the overhead method.

The work with juniper understocks was terminated this year. Enough of the plants were salvaged so as to obtain material for a final analysis of the results. Six varieties of junipers were grafted to five different understocks. Comparing height and trunk diameter, the best understocks, regardless of the scion wood used, were common red cedar, Irish juniper and spiny Greek juniper. Andorra juniper and biota, or Oriental arborvitae, were not satisfactory.

Other research projects under way were listed by Dr. Chadwick, but because of a lack of time he did not elaborate on the details. Studies on spray fertilizers were started last summer. The problem of suitable mulches for taxus beds is being continued, as are the studies on weed control.

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panded as new varieties are available for planting.

The study of rose species and varieties in cooperation with the American Rose Society is also an important part of the research program.

In regard to maintenance practices, a complete report on fruit set prevention was given by R. H. Miller at the arborists' program January 23, which is reported on another page of this issue. Shade tree fertilization practices and pest control methods are also part of the yearly program.

Dr. Chadwick then called on Charles Dickinson, a graduate student in the department of horticulture, to give a summary of his work with nursery soils.

Mr. Dickinson explained that the reason this problem was undertaken was that there has been a general decline in the productivity of soils through the years. This decline coincides with the structure of the soils. Through improper soil management the soil productivity and structure are slowly being destroyed.

The seriousness of the problem is accentuated in the case of nursery soils because they are often wet while worked during digging operations. Another factor is encountered in moving balled and burlapped

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stock. In digging an acre of 5-year balled and burlapped stock, over 165 tons of soil are removed, or an average of thirty-three tons per year. Coupled with erosion, this results in a rapid removal of the good topsoil.

Mr. Dickinson stated that his work was to lay the foundations for a long-term research problem to obtain data which would eventually throw some light on how to maintain the productivity and good structure of nursery soils.

Following Mr. Dickinson's report, Everett E. Janne gave a brief summary of the work carried out the past year under the Ohio Nurserymen's Association research program.

Included in this work was a study of the effect of various storage temperatures and poststorage treatments on the survival and growth of hybrid tea roses. Another study was made of the effect of prestorage pruning on the growth and survival of hybrid tea roses. A preliminary study was made of the effect of quick freezing dormant rose plants prior to placing them in storage.

A comparative study was made of various fabric preservatives to determine their effectiveness for treating burlap to prevent its rapid deterioration when used to burlap balled nursery stock. The results of this test indicate that copper naphthanate is an excellent burlap preservative.

A study was made of various materials to determine their suitability for use as mediums for heeling in nursery stock and plugging potted plants.

The problem of pest control is one which always confronts the nurseryman. Dr. R. B. Neiswander, department of entomology, discussed the results of "Investigations of Nursery Insects During 1949," using an interesting series of slides to illustrate his talk. His report will be published in a subsequent issue.

Propagation Practices.

James S. Wells, manager of Koster Nursery, Bridgeton, N. J., presented an excellent illustrated talk on "Propagation Practices." He maintained that it was a fallacy to think that anyone could tell someone else how to propagate nursery stock. Practices which will work under one set of conditions will not always work for someone else under a different set of conditions.

When he first came to Koster Nursery Co. he was warned that it was important never to overwater cuttings in the cutting bench. So he proceeded to flood one small section of the bench every time he watered in order to compare it with the regu-

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CHELSEA, MASS.

FERTO POTS

Made of Cow Manure
Plant eats pot. Write for booklet.
Dealers—Agents wanted
ALLEN CO. PITTSBURGH, N.J.

PLATE BOOKS

For Nurserymen

Send for our New Catalog

B. F. CONIGISKY

202 MAIN ST. PEORIA 2, ILL.

No Weed Problem Here! →

**Soil was treated before planting
with**

DOWFUME MC-2

No laborious hand weeding is needed here—because weed seeds were killed by soil fumigation with Dowfume MC-2 before planting was done.

Dowfume MC-2 has shown excellent results—both with seedlings grown under glass and in the field. This new Dow soil fumigant kills most of the weed seeds present in the soil—also controls nematodes and other root-attacking parasites. At higher dosages, it controls many soil-borne plant diseases. It is easy to apply—does a thorough job throughout the tilled layer of soil—aerates quickly to permit planting within 48 to 72 hours.



Uniform, vigorous eggplant seedlings growing in flats treated with Dowfume MC-2 before planting.

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN

lar method of overhead watering. When the cuttings were set out there was no difference in the cuttings from the different sections. He believes that as long as there is good drainage in the cutting bench there is no danger of overwatering.

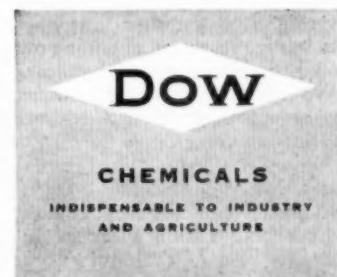
Mr. Wells emphasized the importance of obtaining fresh seeds when possible. He sows seeds immediately without bothering to clean them, as he feels better germination is obtained this way.

In the preparation of seedling flats, Mr. Wells follows the procedure outlined in the United States Department of Agriculture leaflet No. 243, "Sphagnum Moss for Seed Germination," with only a few modifications. He has experienced difficulty in sowing rhododendron seeds thin enough.

Arborvitae cuttings are placed in flats of damp sphagnum moss, then stored in a cellar for six weeks and then moved to the greenhouse. They are well callused at the time of moving and root well after being placed in the greenhouse. This method allows the greenhouse space to be used for other purposes while the cuttings are held in the basement. He has used this method for three years. It does not produce so good results on other types of cuttings.

He has had success in rooting rho-

Your Dow Dealer can supply you with Dowfume MC-2 and the simple equipment needed for its application. Or you may write our Fumigant Division for complete information.



NURSERY NECESSITIES

RABBIT REPELLENT

Just what you have been looking for. Ready to use; simply paint it on your trees.

Nonpoisonous.

Five-gallon Drum for \$10.00,
F.O.B. Philadelphia.

CRYSTAL BORER REPELLENT

For most species of borers on deciduous trees. Apply as protective measure. Used by leading tree companies.

CRYSTAL NO-DRI

A scientific wax emulsion. Can be applied with spray equipment. Retards and reduces loss of moisture. Permits transplanting out of season.

Write for free booklets.

CRYSTAL SOAP & CHEMICAL CO., Inc.
Department AN
6300 State Road Philadelphia 35, Pa.

ALUMINUM TAGS

(All-weather)

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- \$1.50 per 1000. \$2.00 per 100.

Write for Samples.

BERRYHILL NURSERY CO.
P.O. BOX 696 SPRINGFIELD, OHIO



Build Your Own Irrigation System

Using the nozzle that gives adequate irrigation on low operating cost. Covers 40-foot circle on 15 lbs.' pressure. Complete even coverage improves yields and quality of crops. Plan and instructions sent upon request.

ITTNER BROS.
Box 89 ANOKA, MINN.

SPECIAL PINNING NAILS

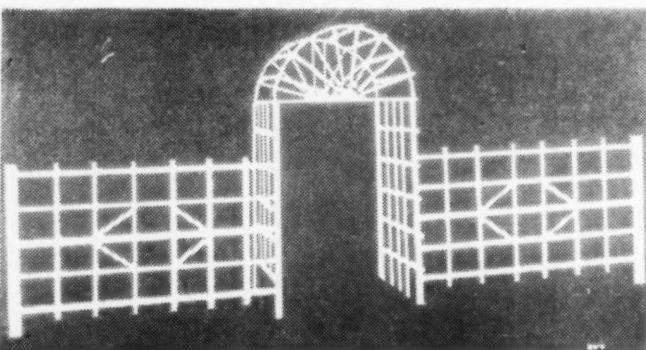
Nails built to special specification for pinning.

These are 7d, smooth, box-pin-pointed with a special, heavy, thick head. Men can pin day after day without sore hands. Something we have never been able to get before, and we had to purchase in carload.

Priced F.O.B., Fairview, Pa.
Usual 5 per cent cash discount.

	Per cwt.
1 to 5 cwt.	\$12.50
5 to 10 cwt.	12.00
10 cwt. or more	11.50

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, PA.



ALL-STEEL LIFETIME PERGOLA AND FENCE

Picture this beautiful lifetime pergola and fence, covered with climbing roses or vines, separating a lawn from a vegetable garden or enclosing a patio and outside fireplace. You'll find them listed in STANWADE'S new catalog, which pictures All-Steel trellises, pergolas, wreath holders, driveway markers and fencing of various sizes and designs with prices. For STANWADE'S catalog and more information, write to

STANWADE METAL PRODUCTS

Attn.: S. L. Wooster
BOX 23 HARTFORD, OHIO

dodendron cuttings by use of air layering. He scores or wounds the parent plant, then wraps damp sphagnum moss around the wounded area and covers this with a plastic covering. It is a rather slow operation, but is effective in obtaining own-rooted rhododendrons and azaleas.

Wounding as an aid in propagation by cuttings is used widely now. Information regarding the use of wounding was first obtained from the Dutch. Mr. Wells has found that the most effective method of wounding is by slicing a thin piece of bark from the base of the cutting or by scoring the basal end of the cutting with a knife point. He uses either hormone powders or the concentrated dip method on almost all of his cuttings.

Magnolia soulangiana cuttings were rooted in a month's time when the cutting was wounded before sticking. On heavy wounds the roots emerge around the wound; on a light wound they emerge from the scar tissue.

Rhododendron cuttings are difficult to overwinter. The best method is to lift cuttings from the bench as soon as rooted, pot them and return them to the greenhouse. A warm humid atmosphere encourages root growth. When the terminal buds swell they are in the first stage toward active growth, which should begin before fall. If the terminal bud has not started to swell by fall there will be some loss during the winter.

Dogwood is another plant which is difficult to overwinter. He has secured almost 100 per cent rooting with dogwood, but has had no success in bringing it through the winter.

This past fall Mr. Wells treated 100,000 taxus cuttings with hormone powders and stuck them four inches deep in flats. These were kept in the greenhouse until November, when they were removed from the flats and

ARIENS *Gardeneer*



ADDITIONAL TOOLS

- ✓ SICKLE BAR
- ✓ SPRAYER
- ✓ SEEDER
- ✓ BULLDOZER
- ✓ SNOWPLOW
- ✓ FURROWER
- ✓ ROW MARKER



FRONT MOUNTED

three forward speeds, semiautomatic freewheeling. Rotary tiller is adjustable 10 to 16 ins.—has patented tines. Complete details upon request.

ARIENS CO. BRILLION, WIS.

NURSERYMEN

It attracts—It brings in traffic!

Sells other items as well as PLANT MARVEL!

Builds Sales, Profits and Satisfied Customers.

PLANT MARVEL

"feed as you water"

A leader in retail sales because in addition to high quality, it has EYE APPEAL. Beautiful new lithographed 1/2-lb. and 1-lb. containers. A nationally advertised product. Used and sold by leading Florists and progressive Nurserymen. Highest Analysis—12 per cent Nitrogen, 31 per cent Phos. Acid, 14 per cent Potash, plus minor elements and B.I. All water soluble. Absolutely no colloidal residue.

Write today for complete details and FREE Trial Size Package!



PLANT MARVEL LABORATORIES

12050 Parnell Ave.

Dept. AN-2

CHICAGO 28, ILL.

placed out in frames. At this time he had seventy per cent of the cuttings rooted and believes that by spring most of them will be rooted.

Mr. Wells uses a great deal of sawdust in his nursery. He finds it is an excellent medium or mulch for rhododendrons and azaleas. When using sawdust the nitrogen content of the soil is used up rapidly, so that additional fertilizer must be applied. Sawdust has been substituted for peat in azalea and rhododendron beds. The plants had a yellow appearance during the early part of the season, but by fall they were just as large and green as could be desired.

At the Koster Nursery the plants are lined out by machines as much as possible. Using a celery planter, four men were able to plant 350,000 pink dogwood liners in three days. Any laborsaving device is a big item in reduction of costs and should be taken into consideration by all progressive nurseries.

Label Display.

The collection of various types of tags, labels and stakes suitable for use in the nursery, sales lot and garden was of considerable interest to the nurserymen, arborists and landscape men attending the short course. Mr. Janne contacted the various firms which advertise their products in the American Nurseryman asking them if they would care to supply samples for the display. The following furnished a large assortment of metal, plastic and wooden markers: Benjamin Chase Co., Dayton Fruit Tree Label Co., Portland Wholesale Nursery Co., Midwest Metal Specialties, S.W. Supply Co., the Siebenthaler Co., Berryhill Nursery Co., Lansing Specialties Mfg. Co., Morton Arboretum, A. M. Leonard & Son and E. A. Sanford.

Nursery Clinic.

The last session of the twenty-first annual short course was the nursery clinic. Dr. L. C. Chadwick presided as chairman, and the board of experts included Dr. Ray Hasek, B. C. Smith, Dr. J. H. L. Truscott, Dr. R. B. Neiswander, James S. Wells, Everett E. Janne and Arthur Slavin. A lively discussion ensued. Some of the high points of this discussion follow:

A good method of heeling in nursery stock for quick sales is to cover the roots with a mixture of sand and peat. Supply partial shade by means of lath or cloth, but do not allow the plants to dry out.

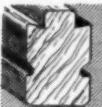
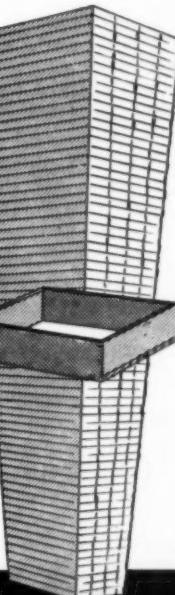
Liquid fertilizer has been successfully used in the sales lot to keep plants in good condition. The prac-

SEED FLATS

SHOCKS IN PART CAR, CARLOAD SHIPMENTS, DIRECT FROM MILL!

Now you can get all the seed flats you want, shipped direct from our own West Coast Mill! Seed flats come as shocks, cut to your specifications and ready to nail together. Full cars, part cars. Order now, or ask for quotation!

ALSO CELERY BOARDS AND PLANT STAKES!



GLASS BAR



SISALKRAFT PAPER



BENCH LUMBER

Heart Redwood or
Heart Cypress Glass
Bar—1-3/8" x 3-1/4".

Or can be made to
your specifications ...
send sketch and di-
mensions.

For soil sterilization,
bleaching celery,
covering plant roots,
and for winter ster-
ilage. Roll 12-1/2' x
100'. Also 3'
to 7' width.

Heart Cypress and
Redwood Bench Lum-
ber for immediate
shipment. 1" x 6" and
1" x 8" sides and
ends, 2" x 4" joists
and stringers. Order
... or ask for quo-
tation.

DON'T DELAY! WRITE, WIRE, PHONE TODAY!

MID-AMERICA'S LARGEST LUMBER SUPPLIER!

The **DOUGHERTY LUMBER Co.**

CLEVELAND 5, OHIO

Phone Diamond 1200

EASIER, FASTER WORK

This Garden Shop Hand Truck is so widely used today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery.

IMMEDIATE SHIPMENT

Now you can get this popular truck at once. Speed up work, save labor cost with this practical and especially designed equipment. Sturdy, strong, attractive in appearance, built for many years of profitable service. Order direct, today.

SPECIFICATIONS
Equipped with Jumbo Balloon Tires
and Tubes, 12x3 inches.
Specially Designed Curved Nose.
All-Steel Construction, electrically
Weight 46 pounds.
Over-all Length 63 inches.
Over-all Width 27 $\frac{1}{2}$ inches.
Capacity 28-in. Ball weighing 600
pounds.



The popular Garden Shop

SMALL HAND TRUCK

Write for free illustrated folder.

THE GARDEN SHOP, Inc.
4833 Mission Rd.

Kansas City 3, Kan.

PAY LESS for WOOD LABELS

We specialize in the manufacture of low-cost, high-quality Wood Labels. Supply houses which offer our labels do so at an attractive profit to themselves. Write for samples, prices and discounts. Our labels are fully guaranteed to be satisfactory.

ANTHONY AND COMPANY, ESCANABA, MICH. PHONE 1286

**Not a Textbook . . .
but a Businessman's Brochure!**

"HOW TO MAKE YOUR OWN NURSERY ADS THAT SELL"

By J. H. Slingerland

Now in its fourth printing! This telegraphically simple 4-step Fundamentals of Nursery Stock Advertising that teaches YOU how to MAKE ADS THAT SELL. Accepted enthusiastically and applauded by hundreds of Nurserymen at their annual meetings over the past 2 years.

BUILT A MILLION-DOLLAR BUSINESS

Written by an Advertising Man turned Nurseryman—this identical 4-step Method built a Million-dollar Nursery business in 3 years. "Worth \$100"—"One hour with this and I can do it"—"Waiting years for this"—"Most understandable thing I've ever seen"—"Told us everything we needed to know"—"My nursery owners. A university professor said—"Marvelous teaching technique."

GIVES FACTS—NOT GENERALITIES

Here's what this brass-tack, pin-point Brochure tells you, teaches you, does for you . . .

- Gives you complete understanding of the 3 Principles that Make Ads Sell and tells YOU how to apply them yourself.
- Identifies the TWO Fundamentals of Advertising so you can use ads successfully.
- Gives you the 3 STEPS in Planning an Advertising Program that SELLS—and shows you how to work them out automatically.
- Gives the KEY to writing Headlines That Sell, so YOU can write them.
- Tells the SOURCE of Selling Copy and how YOU let it write itself.

TEACHES WITH CONVICTION, PROOF

Dramatic, pointed humor "sugar coats" the calm, logical, telegraphically brief teaching technique, makes the lesson "sink in." No fine-sounding or qualifications—no extra words. One hour with "How to Make Your Own Nursery Ads That Sell" and YOU CAN START building your own ads.

Includes complete artist's drawing of fully executed ad, embodying ALL FOUR STEPS taught you in the Brochure—proving you can do it, because you'll recognize that headlines and copy fit the "lessons" perfectly.

FILLED WITH "PROFIT-PLUS" IDEAS

In addition to advertising, this Brochure gives you "no-cost" sales-making ideas . . .

- How to DOUBLE and TRIPLE the customer flow into your nursery.
- How to get repeated free publicity news items and photographs of your nursery in your local newspaper.
- How to get the whole town talking about your nursery, recommending you.
- How to advertise any item in your nursery so the customer can't buy it anywhere else; he must come to you.
- How to get higher prices for all advertised nursery items.
- How to beat the chains without cutting prices; take their business away.
- Reveals 12 specific huge sales opportunities this year—when people in your town must spend money—and tells you how to have it spent for Nursery Stock.
- Why the Nurseryman is his own best ad man.

COMPLETE YEAR-ROUND AD PROGRAM

Provides you with a complete year-around advertising program for YOUR nursery—YOUR Own Ward—YOUR Local Paper. Twenty years' advertising and selling experience backs up every recommendation. You'll agree with everyone—NOW KNOW how to do them yourself—quickly, confidently, successfully.

Price only \$5.00 per copy

Available direct from author only. He was formerly Advertising Manager of Montgomery Ward's Nursery Stock Department; Director of Dale Carnegie Institute, Chicago; Guest Lecturer, Northwestern University.

Order today—send check or money order. This Brochure tells How, What and Why to start advertising in March, 1950. Price, \$5. complete. Order today to be ready for a fast, profitable start.

J. H. SLINGERLAND
Box 528 Wheaton, Illinois

tice works well with potted or balled plants.

The use of copper naphthalene products for preserving burlap had no detrimental effects on the root system of the taxus plants which were used as test plants. The roots grew through the burlap into the surrounding medium.

The effect of iron sulphate on rhododendrons varies with the variety. One difficulty with using this method of overcoming chlorosis is that it requires repeated applications to take care of the new foliage. A recommended rate of application is one-half of one per cent or one pound of iron sulphate in 100 gallons of water. Use no spreader. In addition to this an application of magnesium sulphate (Epsom salts) at the rate of 250 pounds per acre mixed with sand and applied as a top-dressing to the beds was good. Rhododendrons usually require a heavier dosage of iron sulphate than azaleas.

Mr. Wells finds the concentrated dip method satisfactory for applying hormones to cuttings. He uses ten milligrams of indolebutyric acid per cubic centimeter of solvent. He uses seventy per cent alcohol as a solvent. For soft materials Mr. Wells recommends five milligrams of the hormone per cubic centimeter of solvent.

When propagating in seed flats, Mr. Wells uses Fermate and Semesan to prevent mold. He dips maple and dogwood grafts in melted paraffin wax to eliminate mold from the grafts. This also works satisfactorily with beech grafts.

When asked whether any deaths had resulted from the use of Parathion spray or dust, Dr. Neiswander replied that there have been four deaths. In each case it was because the person was handling the material incorrectly and without a gas mask. It is important that one uses a good gas mask and keeps it in excellent condition.

Mr. Wells has been able to root blue spruce in vermiculite, but the results were not satisfactory. He still depends on grafting to propagate blue spruce.

Mr. Slavin believes that when properly used, sawdust or other wood by-products make excellent mulches and soil conditioners. They should be applied on the surface of the soil and allowed partly to decompose before being worked into the soil. He recommends using ammonia salts rather than nitrates to maintain the nitrogen level. He has noted no rotting off when using sawdust. Wood by-products have also been used satisfactorily as a mulch in taxus beds in the lath house at Ohio State University.



**SELF-PROPELLED
NURSERY SPRAYER**
Clearances up to 78 inches.
Sprays Four Rows at One Time.
Cultivator can be attached.
For Information Write:
VICTOR FRIDAY, COLOMA, MICH.

Growers . . .

DON'T NEGLECT
The Plants You Sell
See That Your Customers Have

NuWAY PLANT FOOD
Highly Concentrated - Soluble
Formulated by G. T. Newnam

TO INSURE CONTINUED SUCCESSFUL GROWTH

use it! sell it!

ATTRACTIVELY PACKAGED
\$1.00 Size Jar Packed 12 to Carton
25 cent Size Can Packed 24 to Carton
Dealer Discount 33 1/3%
Send \$1.00 for Trial Jar
Returned on 1st Stock Order

FREE
Write for Growers Economy Price

NuWAY PLANT FOOD CO.
STREATOR, ILLINOIS

THE SUPERIOR SOIL SHREDDER

DEPENDABLE
RUGGED
ECONOMICAL

Write:
THE SNYDER MANUFACTURING CO.
Box 15
MEADVILLE, PA.

Mention The American Nurseryman when you write.

PLANT COVER NETS
For Year-round Plant Protection
36x44-ft. size only, **\$14.75**
F. O. B. nearest shipping point.
G. I. SURPLUS DISTRIBUTING CO.
P. O. Box 943
AUSTIN, TEX.

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**PROTECT YOUR EVERGREENS,
SHRUBBRY, FLOWERS AND LAWN**
Ornamental decorative edging to protect your garden.
Self-Supporting—No Stakes or Posts!
Easy to set up and just as easy to remove.
WRITE FOR LITERATURE AND
DEALER PRICE LIST
BROADWAY MACHINE & MANUFACTURING CO.
SHELBYVILLE, INDIANA



MENNEPOTS Make Profits for You

Extend your selling season and save time and labor in your potting operations! The economical medium for merchandising Roses, Shrubs, Trees, Annuals, Perennials, etc., in full flower, in all seasons. NO TRANSPLANTING; PLANT POT AND ALL.

Lightweight—superior strength—ready to use, with stapled bottom. The Mennepot comes ready for use, with stapled bottom. This makes for labor saving in potting time, yet allows for aeration and drainage for root systems! Roots readily penetrate pot's walls and bottom in normal growing habit. Plants can be redug with ease months later, because of a compact root system. The extremely light weight of the Mennepot makes shipping costs negligible.

Order next season's requirements Now!

All Shipments
F.O.B.
No. Tonawanda,
N. Y.

Less than 100
pounds take
100-lb. freight
rate.

Size	Approx. Wt. per 200	Top Dia.	Bot. Dia.	Ht.	Price per 100	Price per 1000
No. 1	30 lbs.	6 ins.	5 ins.	6 ins.	\$4.00	\$37.50
No. 2	40 lbs.	7 ins.	5½ ins.	9 ins.	4.50	42.50
No. 3	50 lbs.	8½ ins.	6½ ins.	9 ins.	5.00	47.50

500 or more take 1000 quan. price. Send 25c for one set of Samples.

MENNO S. MENNES NURSERIES Phone: Tua. 2158 NORTH TONAWANDA, N. Y.

A cover of shingle tow or stave tow makes an excellent top-dressing for seedbeds. The bed is prepared in the usual manner, the seeds are rolled in and the shingle tow is scattered over the surface. There has been no evidence of rotting off in the seedbed.

When asked whether it made any difference as to the type of sawdust used, Mr. Wells replied that he saw no difference so long as it was free of foreign materials.

CATALOGS RECEIVED. WHOLESALE CATALOGS.

Wayside Gardens Co., Mentor, O.—Perennials, annuals, lilies, bulbs, shrubs, seeds and roses; handsomely illustrated, partly in color; 68 pages and cover, 8½x11¼ inches.

WHOLESALE PRICE LISTS.

Corliss Bros., Inc., Gloucester, Mass.—Chrysanthemums and other perennials; 6-page folder, 4x9 inches.

William Crosby Horsford, Charlotte, Vt.—Native evergreens, ferns, lilies, orchids and other plants; 8 pages, 4x9 inches.

Ilgrenfritz Nurseries, Inc., Monroe, Mich.—Roses; 8 pages and cover, 6½x9 inches.

Pequot Nurseries, Brainerd, Minn.—Evergreens, deciduous lining-out stock and perennials; 4 pages, 8½x11 inches.

Stribling's Nurseries, Merced, Calif.—Fruit and nut trees, small fruits, shade and flowering trees; 8-page folder, 4x9 inches.

L. E. Williams Nursery Co., Exeter, N. H.—Native trees, shrubs, perennials and bulbs; 8 pages and cover, 6x9 inches.

RETAIL CATALOGS.

W. F. Allen Co., Salisbury, Md.—Strawberries; 32 pages, 6½x9 inches.

Andrews Nursery Co., Faribault, Minn.—Fruit trees and small fruits, flowering shrubs, shade trees, perennials and roses; illustrated in color; 48 pages, 7½x10½ inches.

J. V. Bailey Nurseries, St. Paul, Minn.—Fruit trees and small fruits, shade and flowering trees, shelterbelt trees and shrubs, evergreen and roses; illustrated in color; 32 pages, 6½x9¾ inches.

Better Gardens, San Marino, Calif.—Flower seeds, bulbs and camellia plants; 4-page folder, 9x12 inches.

Cole Nursery Co., Painesville, O.—Perennials, roses, hedge plants, ground cover plants, flowering and ornamental

NEW ALUMALATH IN ROLLS LIKE LAYING A CARPET

Simplifies Lath House Construction

5x50-ft. Alumalath Rolls may be put in place in a jiffy. With your framework up you merely unroll Alumalath and nail it in place, and immediately you have uniform shading at low cost with long-lasting Alumalath . . . the metal lath house.

THE MOST CONVENIENT CONSTRUCTION KNOWN

Above you see a roll of 1-in. spaced Alumalath. It weighs but 30 lbs. It can be "applied like a carpet" . . . then nailed into place.

Alumalath Rolls are available in 0-in., 1-in., 1½-in. or 2-in. spacings; also special spacings.

For greenhouses, patios and porches Alumalath is the buy. With cord attachment it will roll up or down as required and affords ideal protection.

Some Territories Open for Distributors. Write or Wire.

HARRY H. REYNOLDS
2561 VALENCIA ST. SANTA ANA, CALIF.



**HERE'S HOW
Thermotape
CONTROLLED SOIL HEAT
GIVES YOU BETTER PLANTS IN
LESS TIME, WITH LESS WORK**

Thermotape electric heating tape is different from any other soil heating equipment which you have ever seen or used. Four resistance heating wires are embedded in a strong, tough, flexible vinyl plastic to give long and useful life and assure adequate heating capacity.

USE IT. In your own operations Thermotape controlled heat will give higher germination, quicker rooting and absolute growth control at all times, regardless of weather conditions. When the time comes to harden off your plants, pull the plug and your hotbed immediately becomes your coldframe. Saves duplication of equipment and hours of moving or transplanting time.

SELL IT. Many of your customers are home gardeners and prospects for Thermotape sales. We will gladly supply colorful descriptive folders and newspaper mats to help you cash in on this profitable business.

WRITE TODAY for literature, sizes and prices on Thermotape for controlled soil heat.



The SMITH-GATES CORP. Plainville, Conn.

NURSERY LABELS WATERPROOF

"Rain in the Rain"

brand

(We are sole distributors.)
Made from highest quality
tag board.

Use any ordinary pencil.
Rain or shine, writing stays on.
In sheets of 20.

Can be used in typewriter.
Two lengths

8 x $\frac{1}{8}$ ins., 1000 per pkg., \$2.50
Per 5000 lots, \$2.25 per 1000.
6 x $\frac{1}{8}$ ins., 1000 per pkg., \$1.50
Per 5000 lots, \$1.40 per 1000.

Prices for larger quantities
quoted on request.

Prices F.O.B. Portland, Ore.
or Tacoma, Wash.

WOOD

Tree, Pot and Garden Labels
BENJ. CHASE CO.

and

WOSCO

(Made in Portland)

Plain, painted or printed.
Distributors for

GOODRICH

Rubber Budding Strips

and

CLOVERSET POTS

Write for prices.

PORLAND WHOLESALE NURSERY CO.

306 S.E. 12th Ave.

P. O. Box 2062

PORLAND 14, ORE.

IT COSTS NO MORE
(and in most instances less)
FOR OUR PACKING OF

**Nursery Burlap
Squares and Rolls**

Write for prices and samples.

L. ATKIN'S SONS
P. O. Box 167 Rochester, N. Y.

**LABELS
FOR
NURSERYMEN**

**THE
BENJAMIN CHASE
COMPANY**
DERRY, N. H.

QUALITY PAPER LABELS

Tough, water-resistant stock, $\frac{1}{8}$ -in. x 7 ins.,
plain or printed. Single or in sheets of 10.
Shipping tags, full-color broadsides, catalogs,
price lists, order blanks, order books, stock
card, general labels, bunters, namebooks, dis-
tinctive letterheads, envelopes, statements, cir-
culars.

Write for free samples and prices.

THE TINGLE PRINTING CO.
SINCE 1867 PITTSVILLE, MD.

trees and shrubs, evergreens, fruit trees
and small fruits; illustrated in color; 32
pages, 8 $\frac{1}{2}$ x11 inches.

Conard-Pyle Co., West Grove, Pa.—
Roses, chrysanthemums and perennials;
illustrated in color; 40 pages, 6 $\frac{1}{2}$ x9 $\frac{1}{2}$
inches.

Hebden H. Corsan, Hillsdale, Mich.—
Nut trees; 4 pages, 8 $\frac{1}{2}$ x11 inches.

Cutler & Vennard Nursery, Sioux City,
Ia.—Gladiolus bulbs for 1950; 24 pages
and cover, 6x8 $\frac{1}{2}$ inches.

Earl Ferris Nursery, Hampton, Ia.—
Fruit and nut trees, small fruits, ever-
greensENS, deciduous trees and shrubs, and
perennials; illustrated, partly in color; 56
pages and cover, 10 $\frac{1}{2}$ x12 $\frac{1}{4}$ inches.

Henry Field Seed & Nursery Co.,
Shenandoah, Ia.—Flower and vegetable
seeds, perennials, roses, shrubs, vines, trees
and supplies; illustrated, partly in color;
72 pages, 9 $\frac{1}{2}$ x13 $\frac{1}{2}$ inches.

Inter-State Nurseries, Hamburg, Ia.—
Flower and vegetable seeds and plants,
flowering shrubs, small fruits and fruit
trees, shade trees and nut trees; beau-
tifully illustrated in color, 88 pages,
7 $\frac{1}{2}$ x10 $\frac{1}{4}$ inches.

Jackson & Perkins Co., Newark, N. Y.—
Roses and perennials; illustrated in color;
48 pages and cover, 9x11 $\frac{1}{4}$ inches.

Kansas Landscape & Nursery Co.,
Salina, Kan.—Evergreen and deciduous
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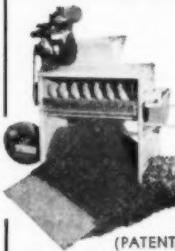
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